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FIGURE 4773B

GTTAGGTCAGAAGGAGTACTGGTGCGTGGGGGCCCTTACCCAGGGTTGAGTATTTTATCTGTAAAATGTTATCTG
CCCTTTGGCTGCATTGGAATTTAGAGAAGGCTGCAGAGGCCTGGGTTACACAGCCTGAGTCACAACGTGGGAAG
GAATCTCTGCCACGGGAAAGGTGGGCGGAAGCAGCTGGCAGCCTGGGGCGTGCTTCAGGCTCCTCCCTCTAAGGG
GCGCCATGGGAACAGGCTCCGGAGGGAGCCGGCGTCTGAAAGGCCCGGGACCTGCTGCAGTGCCAGAGGGGCC
TCTGGAGCAGGCCTGGCTTTTAAATGGGGGGCTGAATTCAGCTCACACACACCTCAAGTCCAACCTTACTTTCT
TCAGCCAGAATACATTTCTGTAAAACCTGGCTTGTGTGCTTGGCTTTTAAAGATGGTGTATGTTTGTAAAAATAT
TCTTCTGGGCTCAAAAGCTAGCTTGAGGGGGCAGATGCCCCAGGTGTCCAGCTCCACAGCCCTGGCAGATCCC
AGACCCCTTGGTGGCAGGTCCAGAGCCTAGGTGGTAGGAGCTTGATCTTGTCTTCTGCCCTTACCCCTCAGTAG
TGGGGCTGCGAGGTAGTAGACAGGATGCCAGTTAAGTTGAATTTAGATAGAAAATAATTTTAGAATAAAATAT
GTTCTATCTAATACATGGGACAGATGTTATTTTTAGAGATAGGATCTTGCTCTGTTGCCAGGCTGGAGTGTAGT
GGTATGATCATAGCTCACCACAACCTTGAACCTCCAGGCTCAAGCGATCCTCCCGCCTTAACTGCCTGAGTAGCT
GGGACTACAGGCATGCACCACCACGCCCAGCTAATTTTTCTTATTTTTGTAGAGACAGGGTCTCACTGTGTGTC
CTCACTCGAGCTGCTGACCTCAAGTGATCCTCCACCTCAGCCTGCCAAAGCACTGGGATTACAGGCATGAGCCA
CCATGCCTGGCCAGGACATATTTGAAATGGGGAGATTTAAAAATTCTGATGATTAGACTGAATCCTCAGACGTT
CTGGTTTGATTGTTGTGGGTGTAGCCCAGGCATGGGATTTTTAAAGAGCTGCTCAGGTAATCCAATTTAATTG
CGTCTCTACTTGGGTTTTTTGTTTGTATTTTATTGTTTTTGCTAAACCTGGCAACCCTACCGAGTAGGGATTAGC
AGTAACTTATCTGAAATTTAGAGGTGTTTTGGGGGTGGGGCGAGGGTTTCTGTAGTAGACTCAGATTTTACATGG
CCCTGAGCTGCCCTTGCCTTCAGTTGGAAGCCACGCAAATGAACTGAACCAGGAGTGAGCTTCGTGTACATTAT
CTATTAGAAAATGAAGTACCTTCTGGTTCAGCTAGTCCCTGTGCGTTGAGAGGCTTTAAGAACTTCTAGTAAAA
ATGTTTTTTTCTTTTAGCTTTGAATTGGCCAGAGTTTATCCTAGATTATTTTATTTTAAATGGTAGAATTCITT
GCGAACTGTACAGAGAAATTCCTTTTCATGACTTTATTTCTGACCTATTTAAACATGAACAGGCCAGGCATGGT
GGCTCACGCCTGTAATCCTAGCACTTGGGAGGCAGTGGCAGGCGGATCACTTGAGCTCAGGAGTCCTAAACCAGC
CTGGGCAACATAGTGATACCTTGTCTCTACCAAAGTT

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FIGURE 4774

MKGCEELLKDVLSVESAGTLPCAPEIPDCVEQGSEVTGPTFADGELIPREPGFFPEDEEEAMTLAPPEGPQELYT
DSPMESTQSLEGSVGSPA EKDGGLGGLFLPEDKSLVHTPSMTTSDLSTHSTTSLISNEEQFEDYGE GDDVDCAPS
SPCPDDETRTNVYSDLGSSVSSSAGQTPRKMRHVYNSELLDVYCSQCCKINLLNDLEARLKNLKANS PNRKISS
TAFGRQLMHSSNFSSSNGSTEDLFRDSIDSCDNDITEKVSFLEKKVTELEND SLTNGDLKSKLKQENTQLVHRVH
ELEEMVKDQETTAEQALEEEEARRHREAYGKLEREKATEVELLNARVQQLEEEENTELRTTVTR LKSQTEKLDEERQ
RMSDRLEDTSRLKDEMDLYKRMDKLRQNRLEFQKEREATQELIEDLRKELEHLQMYK LDCERPGRGRSASSGL
GEFNARAREVELEHEVKRLKQENYKLRDQND DLNGQILSLSLYEAKNLFAAQTKAQSLAAEIDTASRDELMEALK
EQEEINFRLRQYMDKIILAILDHNPSILEIKH

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FIGURE 4775

GGCTGATTGGCGCTTCTGCGGCGGATCCTCGGGCGGGCAGCCGGGCGGCGCGTCACGTGGCCCACGGCGTCCAG
GGCGACCAGCCGCGGGCCGCGAGGGCATGGACCTTCAGGCCGCCGGGGCCAGGCGCAGGGGGCCGCGGAGCCGTC
TCGGGGCCCCCGCTGCCTAGCGCGCGGGGGGCGCCCCCAGCCCGGAGGCTGGCTTTGCTACAGCTGACCACTC
CAGTCAGGAGAGAGAGACTGAGAAGGCTATGGATCGACTAGCCCGTGAACACAGAGCATTCTAATGACAGTCC
TGCCCGGGGTGAGGGCACCCATTCTGAAGAGGAAGGCTTTGCCATGGATGAGGAGGACTCTGATGGAGAAGTAA
TACCTGGGAGCTGTCAGAAGGGACAACTGTCCACCAAGGAACAGCCTGGCGATCTTTTAAATGAGGACTGGGA
CTCGGAGTTGAAAGCAGATCAAGGGAATCCATATGATGCTGACGACATCCAGGAGAGCATTCTCAAGAGCTTAA
ACCTTGGGTGTGCTGTGCCCCACAAGGAGACATGATCTATGACCCCGAGCTGGCACCATCCGCCTCCACTGATACC
CTATTATTCCAAGATGGTCTTTGAAACAGGACAGTTTGACGATGCTGAAGATTGAGTGTGGAGCTTTCTGCCTTG
TAGGTGGGCGGGCCTCCACGTCAAGATCTCTTTTCCTGTCTTGAGGTTGAAAAGTCATATCTGAGAAAATGTTTG
CAGTGACCCCTAGTCTGGGGTACACAGACCAGTGTTCCTTATTGACAGTGTTCATAAGGCCCCGTCATTCTCGC
CAGTCTGTTGTTGTTCTTAATGGGCTCCTCCTTGAAATGTGTGTGTTTGTGTCAAGAGGAGTTGTGTTCTTTG
TAAATAAAGGTTAAAAAGAG

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FIGURE 4776

MDLQAAGAQAQGAAEPSRGPPPLPSARGAPPSPEAGFATADHSSQERETEKAMDRDLARGTQSIPNDSPARGEGTHS
EEEGFAMDEEDSDGELNTWELSEGTCPPKEQPGDLFNEDWDSELKADQGNPYDADDIQESISQELKPWVCCAPQ
GDMIYDPSWHPPLIPYYSKMVFETGQFDDAED

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FIGURE 4777

GAGGCGGAGCGGGGAACGAGGCCGTCGGCCATTTTGTGTCTGCTTCCTGTGGGACGTGGTGGTAGCCGTTGGGTT
GGGAAAGTGAGGGATTTTTGGCCTCGTTTTCTCCTGCTTCTTTCTCCTCCCTTTTACTTTGCCGGTAGAACACAG
TTATGGGTCGCAAGAAGAAGCAGCTGAAGCCGTGGTGCTGGTATTGTAATAGAGATTTTGATGATGAGAAGA
TCCTTATTCAGCACCAAAAAGCAAAGCATTTTAAATGCCATATATGTCACAAGAAATGTATACAGGACCTGGCT
TAGCTATTCAATTGCATGCAGGTACATAAAGAAACAATAGATGCCGTACCAATGCAATACCTGGAAGAACAGACA
TAGAGTTGGAAATATATGGTATGGAAGGTATTCCAGAAAAAGACATGGATGAAAGACGACGACTTCTTGAACAGA
AAACACAAGAAAGTCAAAAAAAGAAGCAACAAGATGATTCTGATGAATATGATGATGACGACTCTGCAGCCTCAA
CTTCATTTTCAGCCACAGCCTGTTCAACCTCAGCAAGGTTATATTCTCCAATGGCACAGCCAGGACTGCCACCAG
TACCAGGAGCACCAGGAATGCCCTCCAGGCATACCTCCATTAATGCCAGGTGTTCTCTCTGATGCCAGGAATGC
CACCAGTTATGCCAGGCATGCCACCTGGATTGCATCATCAGAGAAAATACACCCAGTCATTTTGCGGTGAAAACA
TAATGATGCCAATGGGTGGAATGATGCCACCTGGACCAGGAATACCACCTCTGATGCCTGGAATGCCACCAGGTA
TGCCCCACCTGTTCCACGTCTGGAATTCCTCCAATGACTCAAGCACAGGCTGTTTCAGCGCCAGGTATCTTA
ATAGACCACCTGCACCAACAGCAACTGTACCTGCCCCACAGCCTCCAGTTACTAAGCCTCTTTTCCCCAGTGCTG
GACAGATGGGGACACCTGTCAAGCTCAAGTACAGCTTCATCCAATTCAGAAAGTCTGTCTGCATCTTCTAAAG
CTCTGTTTCTTAGCACAGCACAGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATTTCAAACCTTAAATA
GTACCCCTGCAACAACTACAGAACCCCCAAAGCCTACATTCCCTGCTTATACACAGTCTACAGCTTCAACAACTA
GTACAACAAATAGTACTGCAGCTAAACCAGCGGCTTCAATAACAAGTAAGCCTGCTACACTTACAACAAC TAGTG
CAACCAGTAAGTTGATCCATCCAGATGAGGATATATCCCTGGAAGAGAGAAGGGCACAGTTACCTAAGTATCAAC
GTAATCTTCTCGGCCAGGACAGGCCCCCATCGGTAATCCACCAGTTGGACCAATTGGAGGTATGATGCCACCAC
AGCCAGGCATCCACAGCAACAAGGAATGAGACCCCAATGCCACCTCATGGTCAGTATGGTGGTCATCATCAAG
GCATGCCAGGATACCTTCTGGTGCTATGCCCCCGTATGGGCAGGGACCGCCAATGGTGCCCCCTTACCAGGGTG
GGCCTCCTCGACCTCCGATGGGAATGAGACCTCCTGTAATGTGCGCAAGGTGGCCGTTACTGATCTTACTTCATCC
AGTCTAATAGGTTTGGAGATTAAACCTTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCCGTCATAAAGGCT
TCATTGTGACTTTAACAACATTATCTTCCACATACCAGGAACCTATTGGACATTTATTTTACATGGGAAAAATT
ATTTGGAATAATAAAGCAGGAACCTTTCCTGAAGTTGCAATTTATACTGTATGGCTTCTTTTTCATGTTTCATCT
AGGTTTTTTAGAAGTGAAGTATAGTAAATTTGGTTCGTTAAATTGTGAAGGCGCTGGAATTACATGAACATACCAC
CCTAGTAAAGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAAGTTTGCCTTCACAGCATTTCAGATGCTGTTG
GACTTCATGTCCCAACCTAGCTTGGTGAGGGCTGTAACTGTTTCCAAGTACTTGTACATTGGAAGTCTGAATGT
GTAACAATATTTAATGTATTTAGAGTTCCTCATGTTGCAGGGTTTAAAGAAATCTGACCCACCAAGGTCATGTGAC
TTTTCTGTACTGTTAACTTCATTGTAATAAAATGAGAGAAAAATTTATGCCTTTTTATTTCATAACCCAGCTGTG
GACCACTGCCTGAAAGGTTTGTACAGATGCATGCCACAGTAGATGTCCACATAATAAAATTCATAGTTACCAATG
CA

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FIGURE 4778

ATGCGCGGCGGCGGCGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCATCGAC
ATCCTCCACTCCATCGTGAAGCGTGACATTTCAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGAGCAGAGCATC
CTGGAAGTGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTGAAGTATGTACGACCC
TTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAA
GCAGCTACAGGGCAGGAGGTCGAGCTGTGTTTAGAGTCCATCGAATGGGCCAAGTCAGAGAAAAGAAGTTCTTA
CGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACCAAGAGGTACCAGGAAGCATTGCATTGGGT
TCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAGCTCTTTTGGTGGAAGTACAGCTTTTAGAAAGCAAA
ACATACCATGCCCTGAGCAACCTGCCGAAAGCCCGAGCTGCCTTAACTTCTGCTCGAACCACAGCAAATGCCATC
TACTGCCCCCTAAATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGG
AAAAGTGCCTACTCATACTTCTATGAGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCT
CTGAAGTACATGTTGCTGTGCAAAATCATGCTCAACACCCCGAAGATGTCCAGGCTTTGGTGAGCGGGAAGCTT
GCACTTCGGTATGCAGGGAGGCAGACAGAAGCATTAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCA
GATTTTGAAGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCAATCATCAGCACACACTTGGCCAAG
TTGTATGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAATCTCCAAGGCCGACGTGGAAAGGAAATTATCACAGATGATTCTTGACAAGAAATTCAT
GGGATTTTGGACCAGGGGGAGGGTGTCTTGATTATTTTCGATGAACCCCGAGTAGATAAACTTACGAAGCTGCT
CTGGAAACAATTCAGAACATGAGCAAAGTAGTGGATTCCCTCTACAACAAAGCCAAGAACTGACATAG

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FIGURE 4779

MAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLLAKTGQAAELGGLLYVRP
FLNSISKAKAARLVRSLLDLFLDMEAATGQEVELCLESIEWAKSEKRTFLRQALEARLVSLYFDTKRYQEALHLG
SQLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATLDMQSGIIHAAEEKDW
KTAYSIFYEAFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDVQALVSGKLALRYAGRQTEALKCVAQASKNRS
LADFEEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLRVIEPFSRVQIEHISSLIKLSKADVERKLSQMILDKKFH
GILDQGEGLIIFDEPPVDKTYEAALETIQNMSKVVDLSYNKAKKLT

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FIGURE 4780

GGCAGGCCCGCGCCCGCGCCCGGACTTTGCCATCGGCGGGGCGAGTCGCGGGATGCGCCCGGGAGCCACAGCCTGA
GGCCCTCAGGTCTCTGCAGGTGTCGTGGAGGAACCTAGCACCTGCCATCCTCTTCCCAATTTGCCACTTCCAGC
AGCTTTAGCCCATGAGGAGGATGTGACCGGGACTGAGTCAGGAGCCCTCTGGAAGCATGGAGACTGTGGTGATTG
TTGCCATAGGTGTCTTGGCCACCATCTTTCTGGCTTCGTTTGACGCCCTTGGTGCTGGTTTGAGGCAGCGCTACT
GCCGGCCGCGAGACCTGCTGCAGCGCTATGATTCTAAGCCCATTGTGGACCTCATTGGTGCCATGGAGACCCAGT
CTGAGCCCTCTGAGTTAGAAGTGGACGATGTCGTTATCACCAACCCCCACATTGAGGCCATTCTGGAGAATGAAG
ACTGGATCGAAGATGCCTCGGGTCTCATGTCCCACTGCATTGCCATCTTGAAGATTTGTCACACTCCGACAGAGA
AGCTTGTTGCCATGACAATGGGCTCTGGGGCCAAGATGAAGACTTCAGCCAGTGTGAGCGACATCATTGTGGTG
CCAAGCGGATCAGCCCCAGGGTGGATGATGTTGTGAAGTCGATGTACCCTCCGTTGGACCCCAAACCTCTGGACG
CACGGACGACTGCCCTGCTCCTGTCTGTCTGTCAGTCACCTGGTGCTGGTGACAAGGAATGCCTGCCATCTGACGGGAG
GCCTGGACTGGATTGACCAGTCTCTGTGCGGCTGCTGAGGAGCGTTTGAAGTCCTTCGAGAAGCAGCCCTAGCTT
CTGAGCCAGATAAAGGCCTCCCAGGCCCTGAAGGCTTCTGTCAGGAGCAGTCTGCAATTTAGTGCCTACAGGCCA
GCAGCTAGCCATGAAGGCCCTGCCGCCATCCCTGGATGGCTCAGCTTAGCCTTCTACTTTTCTATAGAGTTA
GTTGTTCTCCACGGCTGGAGAGTTCAGCTGTGTGTGCATAGTAAAGCAGGAGATCCCGTCAGTTTATGCCCTCTT
TTGCAGTTGCAAACTGTGGCTGGTGAGTGGCAGTCTAATACTACAGTTAGGGGAGATGCCATTCACTCTCTGCAA
GAGGAGTATTGAAAACCTGGTGGACTGTCAGCTTTATTAGCTCACCTAGTGTTTTCAAGAAAATTGAGCCACCGT
CTAAGAAATCAAGAGGTTTCACTTAAAATTAGAATTTCTGGCCTCTCTCGATCGGTCAGAATGTGTGGCAATTC
TGATCTGCATTTTCAGAAGAGGACAATCAATTGAAACTAAGTAGGGGTTTCTTCTTTTGGCAAGACTTGACTCT
CTCACCTGGCCTGTTTCATTTATTTGTATTATCTGCCTGGTCCCTGAGGCGTCTGGGTCCTCCTCTCCCTTGCA
GGTTTGGGTTTGAAGCTGAGGAACTACAAAGTTGATGATTTCTTTTTATCTTTATGCCTGCAATTTTACCTAGC
TACCACTAGGTGGATAGTAAATTTATACTTATGTTTCCCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4781

METVVIVAIGVLATIFLASFAALVLVCRQRYCRPRDLLQRYDSKPIVDLIGAMETQSEPSELELDDVVITNPHIE
AILENEDWIEDASGLMSHCIAILKICHTPTEKLVAMTMGSGAKMKTSASVSDIIVVAKRISPRVDDVVKSMPPL
DPKLLDARTTALLSVSHLVLVTRNACHLTGGLDWIDQSLSAAEERLEVLREAALASEPDKGLPGPEGFLQEQA
I

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FIGURE 4782

ATGCTGAAGCTCACACCCTTGCCCTCCAAGATGAAGGTTTCTGCAGCGCTTCTGTGCCTGCTGCTCATGGCAGCC
ACTTTCAGCCCTCAGGGACTTGCTCAGCCAGATTCACTTTCCATTCCAATCACCTGCTGCTTTAACGTGATCAAT
AGGAAAATTCCTATCCAGAGGCTGGAGAGCTACACAAGAATCACCAACATCCAATGTCCCAAGGAAGCTGTGATC
TTCAAGACCCAACGGGGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGATGGGTCAGGGATTCCATGAAGCATCTG
GACCAAATATTTCAAATCTGAAGCCATTGA

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FIGURE 4783

MLKLTPPSKMKVSAALLCLLLMAATFSPQGLAQPDVSIPITCCFNVINRKIPQRLSYTRITNIQCPKEAVI
FKTQRGKEVCADPKERWVRDSMKHLDQIFQNLKP

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FIGURE 4784

CTGGAACCCGGAAGCGGCAGCGCGGCGGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCGAGCCCTACCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCGCGAATGCCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCCGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGGCCCTGGTTGCCCTGAGGCGGGTGCTGCTGGCTCAGTTCTCGGCTTTCCC
CGTGAATGGCGCTGATCTCCACGAGGAACTGAAGACCTCTACTGCCATCCTGTCCACTGGCATTGGCAGTCTTGA
TAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGACTGAAATTGTAGGAGGCCAGGTAGCGGAAAACCTCA
GGTATGTCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGCAAAACGTCTATATGTAGATTCCAATGGAGG
GCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCCAGGATGAGGAGGAACAGGCAGAAGCTCTCCG
GAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGC
CCAGCAGGTGACTGGTTCTTCAGGAACGTGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACT
TCTGGGAGGTGAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGGA
CCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGG
ACGCTCCTGGAGCTTTGTGCCAGCACTCGGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCG
GCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGG
GACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGACCTGTGCTGTTGTTGGGAAACAGGGAAGCAT
TGGGGACCCCTCCCAACTTTTCTTCCAGTAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGT
TCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCCTTGGCCTCACTCTCTGTAAGCATATAAACCACAGGCGAAAG
AGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCACGTTTCCCTTCCCTTATTTCTAACGTGTATGTT
TCTGGTGGAAACCAAGTTCACCCTGGCTGGGAGCATCTCTGATAGGCATGCTGGCGACTGGATGGATAATCCTG
TGCATCACCATTGTGTCTGTGCTCCCTCCTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTG
CTGCTGCCCTTTTTTTCTTTGTCTCTGCCCTTCCATTTGTTAGATGGGGGCCCACTCTTCCTTAGCTCTGTCTC
TGAGTTACTGGGTGGAAATAAGCTTATAAATGAAATACTCTTCTCATCTCTGTTTTGCTCTTAAAAATATAAAA
AGGCAATTCCCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4785

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKALVALRRVLLAQFSAFPVNGADLHEEL
KTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLCMAANVAHGLQQNVLYVDSNGGLTASRLQLL
QAKTQDEEEQAEALRRIQVVHAFDIFQMLDVLQELRGTVAAQVVGSSGTVKVVVDSVTAVVSPLLGGQOREGLA
LMMQLARELKTLARDLGMAVVVTNHITRDRDSGRLKPALGRSWSFVPSTRILLDTIEGAGASGRRMACLAKSSR
QPTGFQEMVDIGTWGTSEQSATLQGDQT

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FIGURE 4786

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCCTCCTCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCTTGATAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGAAGTAAA
TTGTAGGAGGCCAGGTAGCGGCAAACTCAGGTATGTCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGC
AAAACGTCCTATATGTAGATTCCAATGGAGGGCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCC
AGGATGAGGAGGAACAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTCCAGATGCTGG
ATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCAGCAGGTGACTGGTTCTTCAGGAAGTGTGAAGGTGGTGGTTG
TGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGC
TGGCCCGAGAGCTGAAGACCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACA
GGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCAGCACTCGGATTCTCCTGGACA
CCATCGAGGGAGCAGGAGCATCAGGCGGCCGCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCCAACAGGTT
TCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGAC
CTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCACTTTTCTTCCAGTAACGCCTGCTGTTT
ACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCCTTGGCCTCAC
TCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCAC
GTTTCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAAACCAAGTTCACCCTGGCTGGGAGCATCTCTGATG
AGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCTGTGCTCCCTCCTAGCGCAGTGGCCA
AGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTGTCTCTGCCTTCCATTTGTTAG
ATGGGGGCCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAAATGAAATACTCTTCT
TCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4787

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

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FIGURE 4788

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCTCCTCCTCTCTCCTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGGAATGCCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCGGCCTGCGGGGAACATCGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCTTGATAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGAAGTAAA
TTGTAGGAGGCCAGGTAGCGGCAAACTCAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACA
TCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCACGTGGGCCAGCAGGTGACTGGTTCTTCAGGAACTG
TGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTGAGCAGAGGGAAGGCTTGG
CCTTGATGATGCAGCTGGCCCCGAGAGCTGAAGACCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACC
ACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCAGCACTC
GGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCC
GACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGG
GTGATCAGACATGACCTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAG
TAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGAATACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGG
GTTTCTTGGCCTCACTCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAAT
TCATACTGGTGCCACGTTTCCCTTCCCTTATTCTAACGTGTATGTTTCTGGTGAAACCAAGTTCACCTTGGCTG
GGAGCATCTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCTGTGCTCCCTC
CTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTTGTCTCTGC
CTTTCCATTTGTTAGATGGGGGCCCACTCTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAA
ATGAAATACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4789

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

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FIGURE 4790

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCAGCCCTACCCTTGGTGCCGCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATCGGGCGTGTCTAGGGTTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCA
GATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCCAGCAGGTGACTGGTTCTTCAGGAACTGTGAAGGT
GGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTGAGCAGAGGGAAGGCTTGGCCTTGAT
GATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGACCTTGGCATGGCAGTGGTGGTGACCAACACATAAC
TCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCT
CCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTCCCGACAGCC
AACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCA
GACATGACCTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAGTAACGCC
TGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTGGGTTTCCTT
GGCCTCACTCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACT
GGTGCCACGTTTCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAACCAAGTTCACCCTGGCTGGGAGCAT
CTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGC
AGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCCTTGTGCTGCTGCCTTTTTTTCTTTTGTCTCTGCCTTTCCA
TTTGTTAGATGGGGGCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAAATGAAAT
ACTCTTCTCATCTCTGTTTGTCTTTAAAAATATAAAAAGGCAATTCCCCG

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FIGURE 4791

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKAEALRRIQVVHAFDIFQMLDVLQELRG
TVAQQVTGSSGTVKVVVDSVTAVVSPLLGGQQREGLALMMQLARELKTLDLGMVAVVTNHITRDRDSGRLKP
ALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSRQPTGFQEMVDIGTWGTSEQSATLQGDQT

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FIGURE 4792

GTGGGGACGCAGGATGGCGGCAGCAGTGGCGGACGAGGCGGTGGCGCGCGATGTGCAGCGGTTGCTAGTGCAGTT
CCAGGATGAGGGCGGGCAGCTGCTGGGTTCCCGTTTCGACGTGCCGTGGACATCACCCGGACAGGCTGCAGCT
CGTGTGCAACGCGCTACTGGCCCAGGAGGATCCCCTGCCACTGGCTTTCTTTGTCCACGATGCTGAGATCGTCTC
CTCACTGGGGAAGACGTTGGAGTCCAGGCAGTGGAGACAGAGAAGGTCCTAGACATCATCTACCAGCCACAGGC
TATCTTCAGAGTCCGGGCTGTGACTCGCTGCACCAGCTCCTTGGAGGGTCACAGTGAGGCAGTCATTTCTGTGGC
CTTCAGCCCTACGGGAAAGTACCTGGCCAGTGGCTCTGGAGACACCACCGTGCCTTCTGGGATCTCAGCACAGA
GACACCACATTTACATGCAAGGGACACAGACTGGGTCTTAGTATATCTGGTCTCCAGATGGCAAGAAGCT
GGCCTCAGGCTGCAAGAATGGCCAGATTCTCTCTGGGACCCAAGCACAGGGAAGCAGGTGGGCAGGACCCTCGC
TGGCCACAGCAAGTGGATCACAGGCCTGAGCTGGGAGCCCTCCATGCGAACCTGAGTGGCGCTATGTGGCCAG
CAGCTCCAAGGATGGCAGTGTGCGGATCTGGGACACAACCTGCAGGCCGCTGTGAGCGCATCTCACCGGGCACAC
CCAGTCGGTCACCTGTCTCCGGTGGGGAGGGGACGGGCTTCTCTACTCTGCCTCCAGGACCGCACCATCAAAGT
CTGGAGAGCTCATGACGGTGTGCTGTGCCGACTCTGCAAGGCCACGGCCACTGGGTGAACACCATGGCCCTCAG
CACTGACTATGCCCTGCGCACTGGGGCCTTTGAACCTGCTGAGGCCTCAGTTAATCCCCAAGACCTCCAAGGATC
CTTGACAGAGTTGAAGGAGAGGGCTCTGAGCCGATAACAACCTCGTGGGGGCCAGGGTCCAGAGAGGCTGGTGTG
TGGCTCCGACGACTTCACCTTATTCTGTGGTCCCCAGCAGAGGACAAAAAGCCTCTCACTCGGATGACAGGACA
CCAAGCTCTCATCAACCAGGTGCTCTTCTCTCTGACTCCCGCATCGTGGCTAGTGCCTCCTTTGACAAGTCCAT
CAAGCTGTGGGATGGCAGGACGGGCAAGTACCTGGCTTCCCTACGCGGCCACGTGGCTGCCGTGTACCAGATTGC
GTGGTCAGCTGACAGTCGGCTCCTGGTCAGCGGCAGCAGTGACAGCACACTGAAGGTGTGGGATGTGAAGGCCCA
GAAGCTGGCCATGGACCTGCCCGGCCACGCGGATGAGGTATATGCTGTTGACTGGAGTCCAGATGGCCAGAGAGT
GGCAAGTGGTGGGAAGGACAAATGCCTCCGGATATGGAGGAGATGAGACGGCCCGAAGTTCTCTTGACCCCCAC
CTCGACTCGGCCTCTGCCAGCTGCCTTCCCTGCCAGAGAACAAAGGCTGAGATGGCAGTGACACACCCTCCCCA
CCAGTGGGGACCTGAGAATGCGTGTGGCTGCTGTCTCGATAGACCGGAATGGGGTTTTCCACAGATCCCCGC
CTGTGGCACACCCCAGAGCCAGAAATCGAAGGTCACAGGAAGTTGTCACTGAACTTGGCCCGTGTCTGCTACTCT
GTACCTTGCTGGTACAGACAGGGGTGGTGGGCAGCCAGGCTCTATGAGTGGGCCCCCTAGTGTGAGCTCTGTACAG
GGTCAGATCCCAGGTTCTATGACCAATAAGTAACTTAAGTTTTGTGTGTTGGGTTCTAATCCTTGTCTTAGAA
TCCCCATGACTCAATCAAGGACTGTGCTAAATGAGATTGTCCAGCCCCCGCCCTTGCACTGGACTACGCCAAAC
CACACTGACCAGGCACTTGCCCTTCCCTCTCTTCCCCCGTGTGGTAAGAGAGAGGGCCAGTTGTGATAGTGGCCAA
GGAGAATCTAGGGCTGTATTGTTGTCCACTGCAGTAGGCACCGGCCACATGTGACTGCTGGCATGAAATAGAAGT
GCAGTTCCTCCATCGCACTGGGTAAGGCCCTCCAGTATTGGACAGCACACAGAAAGGTTTTATCATCAAGAGAGT
TCTGCTGGTCAGCCCTGCTCCAGGGGATGCCCTCTGCCCTTCGCATAGCACACTGCTTGAGGCCCTGCCAGGCACCA
AGCACTGCCCTGGGCCCATGGGATAGAGCGGGGAAGGTGATGGCTCTTCCAGAGGATTCCTCAGATGGGGAGGC
AGCAGTATGAGCTCTGAGCAGAAGTGGGTATTGTTGATACAGAGGAAGTTCTTTGCCACGAGAAGTTTCAAGCAG
TGAAAGGAATTCCCATCAGGACTCAGACCCAGGCCGAGATCTTGCCCTGAATGTACCTGCCCTCTGCTTCTCC
TGCACTCCATGCTAAGCAGGGTCAAGGTCTGAAGTCTCAGATTGGATTTCCAAACCATCCTTGATATAAAGTGT
CAGAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4793

MAAAVADEAVARDVQRLLVQFQDEGGQLLGSPFDVPVDITPDRLQLVCNALLAQEDPLPLAFFVHDAEIVSSLGK
TLESQAVETEKVLDIIYQPQAIFRVRAVTRCTSSLEGHSEAVISVAFSPTGKYLASGSGDTTVRFDLSTETPHF
TCKGHRHWVLSISWSPDGKKLASGCKNGQILLWDPSTGKQVGRTLAGHSKWITGLSWEPLHANPECRYVASSSKD
GSVRIWDTTAGRCERILTGHTQSVTCLRWGGDGLLYSASQDRTIKVWRAHDGVLCTRLQGHGHVNTMALSTDYA
LRTGAFEPAEASVNPQDLQGSLQELKERALSRYNLVRGQGERLVSGSDDFTLFLWSPAEDKKPLTRMTGHQALI
NQVLFSPDSRIVASASFDSIKLWDGRTGKYLASLRGHVAAVYQIAWSADSRLLVSGSSDSTLKVWDVKAQKLAM
DLPGHAEVYAVDWSPDGQRVASGGKDKCLRIWRR

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FIGURE 4794A

GTGCAGTGGCAGCATCTTGGTTCACCACAATCTCGTCTCGAAGGCTCAGGTGATTCTCTCACCTCAGCCGCTGA
GTAGCTGGGACCACAGTTTCAGCTGTGAGTTCAACATGGAGGCAAATCAGTGCCCCCTGGTTGTGGAACCATCTT
ACCCAGACCTGGTCATCAATGTAGGAGAAGTGACTCTTGGAGAAGAAAACAGAAAAAGCTGCAGAAAATTCAGA
GAGACCAAGAGAAGGAGAGAGTTATGCGGGCTGCATGTGCTTTATTAACTCAGGAGGAGGAGTGATTGCAATGG
CCAAGAAGGTTGAGCATCCCGTGGAGATGGGACTGGATTTAGAACAGTCTTTGAGAGAGCTTATTAGTCTTCAG
ATCTGCAGGCTTTCTTTGAGACCAAGCAACAAGGAAGGTGTTTTTACATTTTGTAAATCTTGGAGCAGTGGCC
CTTTCCCTGAAGATCGCTCTGTCAAGCCCCGCTTTGCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCT
CTGTGCGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAAGGAAGCCAAAAATCTTGGAAGAAG
GACCTTTTTCACAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCGGATCCTGCTGACCCAACTCGGATC
CTGCTGACCTAATTTTCCAAAAAGACTATCTTGAATATGGTGAAATCCTGCCTTTTCTGAGTCTCAGTTAGTAG
AGTTTAAACAGTTCTCTACAAAACACTTCCAAGAATATGTAAGGACAATTCCAGAATACGTCCTGCATTTG
CAAACACTGGAGGAGGCTATCTTTTTATTGGAGTGGATGATAAGAGTAGGGAAGTCTGGGATGTGCAAAAGAAA
ATGTTGACCTGACTCTTTGAGAAGGAAAATAGAACAGCCATATACAACTACCTGTGTTCATTTTGCCAAC
CCCAACGCCCCGATAACCTTCACTCAAAATTGTGAATGTGTTAAAAAGGGGAGAGCTCTATGGCTATGCTTGCA
TGATCAGAGTAAATCCCTTCTGCTGTGCAGTGTCTCAGAAGCTCCCAATTCATGGATAGTGGAGGACAAGTACG
TCTGCAGCCTGACAACCGAGAAATGGGTAGGCATGATGACAGACACAGATCCAGATCTTCTACAGTTGTCTGAAG
ATTTTGAATGTGAGTCTATCTAGTGGGCTCCCTTTAGCAGACCAAGTGTACTCCAAGAAAGGCTGGAAC
ATAAAAAGGAATCCAGCAACTTTTATTTTCACTCCACCAGGATATTTGCGATATACTCCAGAGTCACTCTGGA
GGGACCTGATCTCAGAGCACAGAGGACTAGAGGAGTTAATAAATAAGCAAATGCAACCTTTCTTTGGGGAATTT
TGATCTTCTCTAGAAGTTGGGCTGTGGACCTGAACTTGCAAGGAGAAGCCAGGAGTCATCTGTGATGCTCTGCTGA
TAGCACAGAACAGCACCCCCATTCTCTACACCATCTCAGGGAGCAAGATGCAGAGGGCCAGGACTACTGCACTC
GCACCGCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGGCTACACCGGAAGGTGTGTGTCAGGGCCAAGG
TCCTCTGCTGAGTCTGAGAGCAGCGCAGAGGCTTGGAGGCTGCAGTGTCTCCGATGGATTACCTGCGTCCT
ATAGCCTTGCAAGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTGATTGTCTTACTCGGCTTCAGGTCTC
TCTTGAGTGACCAGCTCGGCTGTGAGGTTTTAAATCTGCTCACAGCCAGCAGTATGAGATATTCTCCAGAAGCC
TCCGCAAGAACAGAGAGTTGTTGTCCACGGCTTACCTGGCTCAGGGAAGACCATCATGGCCATGAAGATCATGG
AGAAGATCAGGAATGTGTTTCACTGTGAGGCACACAGAATTCTCTACGTTTGTGAAAACAGCCTCTGAGGAACT
TTATCAGTGATAGAAATATCTGCCGAGCAGAGACCCGAAAACCTTCTTAAGAGAAAACCTTTGAACACATTCAAC
ACATCGTCATTGACGAAGCTCAGAATTTCCGTACTGAAGATGGGACTGGTATGGGAAGGCAAAAAGCATCACTC
GGAGAGCAAAAGGTGGCCAGGAATTCTCTGGATCTTTCTGGATTACTTTTCAGACCAGCCACTTGGATTGCAGTG
GCCTCCCTCTCTCTCAGACCAATATCCAAGAGAAGAGCTCACCAGAATAGTTCGCAATGCAGATCCAATAGCCA
AGTACTTACAAAAGAAATGCAAGTAATTAGAAGTAATCCTTCATTTAATATCCCACTGGGTGCCTCGAGGTAT
TTCTTGAAGCCGAATGGTCCAGGGTGTTCAGGGAACCTTACGAATTAAGAAATACTTGACTGTGGAGCAAATAA
TGACCTGTGTGGCAGACACGTGCAGGCGCTTCTTTGATAGGGGCTATTCTCAAAGGATGTTGCTGTGCTTGTCA
GCACCGCAAAAGAAGTGGAGCACTATAAGTATGAGCTCTTGAAAGCAATGAGGAAGAAAAGGGTGGTGCAGCTCA
GTGATGCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTCGGCGATTCTCAGGCCTGGAAGGAGCA
TAGTGTGTTGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCCAATGTTCTGATCTGTCTGGCTTCCAGGG
CAAAACAACACCTGTATATTTTCCGTGGGTGGCCATTAGGAAGAACTCCAAATCAAAATGCTATGTAAATGTC
TATGGGTGACAGTCTGCTGATGGTAGAAACCTTTCTTTTTAGTTACAAAGTCAGAGATTGGACGGAGCTGACAC
AAAGAGTTTGGAGCTCCCCATTTCTGGCTCTCCTTTTCAGGGGTCTCTCCCAACCCCTTTTCAGCAGCGGTGGCT
GCCCCCATTTCTGACCCCTGACTCTTCCAGCCAGAAAGATGGTGGTTTTCTAAAGGAACTTTAGCTGTCTGCTGAC
AATGCCGATCTGTGCTTGCATTTTGGGTAAAGCCATAAAAAATAAGAACTCAGCCTGTGGCCTTTCTTTCTTC
CAAGGCTGGGCTTCTTTTTTAAGTGACTTCAATGCAGTTTGTGCTTTTAAAAATTTGTCCAGAAATCGTTTTCTG
CAGAAGCATGGTCTGTTAGGAGCTTACTGGCCGTAGCAGAAGCAATTGTTTCTGAAATCTTGACATTTATCTTT
GCTGTATTCAATTAGGGCTTGGAGAGTCCGAAGATAATTCACTGCTCAGATTAATAATTTGTGAGGACAA
AGAATACCGTTATGATTATTTAATCCTTTAAATTTGTGGTCTCCAGAGCTTGTCTCAGAATGGCCAGACCAAG
CCTTAATTTGTGATAGTGAATATTAATGGTCACTTAAGGAGAAATATAGGCCAAGATGAAATGAACATAAACCT
GTTTGCCTGGCTTTCAGTGAAGATGATATTAGAGACCAAAATCTGGTTCTGAAGGTGTGTATCAGCCCTAAGG

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FIGURE 4794B

TGAACCAGACTTGGGAAAGATTGTCTTTAAAAATCAATGAGTTTATGTTTTAACTTCTCAGCTTAGTTCTATGCA
TTGCTCTATAACACACCTAGTTAAGTTTTATGTTATTCTTGAAGTGTGATTTTTTTCTATTTACTTTTCATGGTT
TGGTGGGCCATTGTTATGGACTGAATGTTTGTGTCCACCCCTTCACCCCCAAATTCCCGTGTGAAGCCCCAACCC
TGCACTGTGGAGCTGGGGCTGCTAAGGAAGTAATTAAGGTTACATGAAGTCATGGTGGGGCTCTGATCTGCTAAG
GTTGGTGTCTTATAGGGAGAGACCCAGAGAGCTTGTTCCTCCCTCCCTGTGCATGCAAACAAGAGGGCATGG
GAGCACACAGAGAGATGGCAGCCACCTACAAGCCAAGAGGAGAAGCCTCACAATCAAACCTCTCGCTGCTGGCGAG
AGTCTTGGACTCTGTCTTGGACTTCCAGCCTCCAGACTGTGAGAAACAAATTTCTGTTGTTTCAGCTTCTCAGTC
TCTGGTGTCTTGTATTGTCAGCCTGAGAACACAGCTGTACGATTATTTGTCAAACAGAAAACACTGATACTTAAC
AATGCTAATGCAATTATTTATTTGCTTTTCAGTCTCTACAAAACGTTCTAAAACACTAATCTAAATATTAACAGT
AAAATATTTGCATAACTAATGGAACTAAGAAATCATATGACCAATATTTCACTTATTGGTAATCTTACTCTACT
GATTTCCCCCAGACTGTGATTTTTGAACTTCCTTGCCCTTCTCCTGTCTTTCTGTGTTTATTCATGGAATTCCA
GTTATCTGGGCTTGAAATTGCAGGCTCTCCTAACTTAAGCAAAATCTGACAGATCAGCAAAATGAGATAAATGTT
TCTTTTTTCTTTCTGACTGCATTAAATCAGATACAACCTCAGCATTAAAAAGCTATCTTTGTAAATGTTGTTACTA
ATAAATTAGTCTTATAAGATCCCTGGACTTTGGAGTTGTTGCAATGTCTTTGAGAGTAATCTTTAAAAGTCTAA
TTTCGACTGGTTGTATCTCTTTATGATTTATTGCCCCACTAACAATATTTGAAACAATATAATATTTTAAATGT
ATAAATAATTATGAATTTTTGTTTAGAACAAAGAGGATTACTGATATTTGTTTCCCTATGAATGGCAAAAGGTTT
AGCTTACTACTGCATTTCTGTTTTAAATAAAAAGTTGAGAGTTGTGTCTCATTAAACTG

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FIGURE 4795

MEANQCPLVVEPSYPDLVINVGCVTLGEENRKKLQKIQRDQEKERVMAACALLNSGGGVIRMAKKVEHPVEMGL
DLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSGGPFPEDRSVKPRLCSLSSSLYRRSETSVRSMDSREAF
FLKTKRKP KILEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILPFPESQLVEFKQFSTKHFE
YVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCACENVDPSLRKIEQAIYKLPCVHFCQPQRPIITFTLKIV
NVLKRGELYGYACMIRVNPFCCAVFSEAPNSWIVEDKYVCSLTTEKWVGMMTDTPDLLQLSEDFECQLSLSSGP
PLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEHRGLEELINKMQPFFRGILIFSRSWAVDLN
LQEKPGVICDALLIAQNSTPILYITILREQDAEGQDYCTRTAFTLKQKLVMGGYTGVKCVRAKVLCLSPSSAEA
LEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLGFRSLLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGL
PGSGKTIMAMKIMEKIRNVFHCEAHRILYVCENQPLRNFISDRNICRAETRKTFLRENFEHIQHIVIDEAQNFRT
EDGDWYGKAKSITRRAKGGPGILWIFLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRS
NPSFNIPTGCLEVFPEAEWSQGVQGTLRICKYLTVEQIMTCVADTCRRFFDRGYSPKDVAVLVSTAKEVEHYKYE
LLKAMRKRVRVQLSDACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLYIFPWGG
H

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FIGURE 4796A

AATTCTCGAGCTCGTGCACCGGTCGACGAGCTCGAGGGTCGACGAGCTCGAGGGCGCGCGCCCGGCCCCACCCC
TCGCAGACCCCCGCGCCCCGCGCCCTCCAGCCGGGTCCAGCCGGAGCCATGGGGCCGGAGCCGAGTGCACCC
ATGGAGCTGGCGGCCTTGTGCCGCTGGGGGCTCCTCCTCGCCCTCTTGCCCCCGAGCCGCGAGCACCCAAGTG
TGCACCGGCACAGACATGAAGCTGCGGCTCCCTGCCAGTCCCAGAGACCCACCTGGACATGCTCCGCCACCTCTAC
CAGGGCTGCCAGGTGGTGCAGGGAAACCTGGAACCTACCTACCTGCCACCAATGCCAGCCTGTCCTTCTGCAG
GATATCCAGGAGGTGCAGGGCTACGTGCTCATCGCTCACAACCAAGTGAGGCAGGTCCCACTGCAGAGGCTGCGG
ATTGTGCGAGGCACCCAGCTCTTTGAGGACAATATGCCCTGGCCGTGCTAGACAATGGAGACCCGCTGAACAAT
ACCACCCCTGTGCAGGGGCTCCCCAGGAGGCTGCGGGAGCTGCAGCTTCGAAGCCTCACAGAGATCTTGAAA
GGAGGGGTCTTGATCCAGCGGAACCCCACTCTGCTACCAGGACACGATTTTGTGGAAGGACATCTTCCACAAG
AACAACCAGCTGGCTCTCACACTGATAGACACCAACCGCTCTCGGGCTGCCACCCCTGTTCTCCGATGTGTAAG
GGCTCCCGCTGCTGGGGAGAGAGTTCTGAGGATTGTGAGAGCCTGACGCGCACTGTCTGTGCCGGTGGCTGTGCC
CGCTGCAAGGGGCCACTGCCCCTGACTGCTGCCATGAGCAGTGTGCTGCCGGCTGCACGGGGCCCCAAGCACTCT
GACTGCTGGCTGCTCCACTTCAACCACAGTGGCATCTGTGAGCTGCACTGCCAGCCCTGGTCACTACAAC
ACAGACACGTTTGTAGTCCATGCCAATCCCGAGGGCCGGTATACATTCGGCGCCAGCTGTGTGACTGCCTGTCCC
TACAACTACCTTTCTACGGACGTGGGATCCTGCACCCTCGTCTGCCCCCTGCACAACCAAGAGGTGACAGCAGAG
GATGGAACACAGCGGTGTGAGAAGTGCAGCAAGCCCTGTGCCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTG
CGAGAGGTGAGGGCAGTTACCAAGTGCCTATCCAGGAGTTTGCTGGCTGCAAGAAGATCTTTGGGAGCCTGGCA
TTTCTGCCGGAGAGCTTTGATGGGGACCCAGCCTCCAACACTGCCCCGCTCCAGCCAGAGCAGCTCCAAGTGTTC
GAGACTCTGGAAGAGATCACAGGTTACCTATACATCTCAGCATGGCCGGACAGCCTGCCTGACCTCAGCGTCTTC
CAGAACCTGCAAGTAATCCGGGGACGAATTCTGCACAATGGCGCCTACTCGCTGACCTGCAAGGGCTGGGCATC
AGCTGGCTGGGGCTGCGCTCACTGAGGGAACCTGGGCAGTGGACTGGCCCTCATCCACCATAACACCCACCTCTGC
TTCGTGCACACGGTGCCCTGGGACCAGCTCTTTTCGGAACCCGCACCAAGCTCTGCTCCACACTGCCAACCGGCCA
GAGGACGAGTGTGTGGGCGAGGGCCTGGCCTGCCACCAGCTGTGCGCCCCGAGGGCACTGCTGGGGTCCAGGGCCC
ACCCAGTGTGTCAACTGCAGCCAGTTCTTTCGGGGCCAGGAGTGCCTGGAGGAATGCCGAGTACTGCAGGGGCTC
CCCAGGGAGTATGTGAATGCCAGGCACTGTTTGGCGTGCCACCCTGAGTGTGAGCCCCAGAATGGCTCAGTGACC
TGTTTTGGACCGGAGGCTGACCAGTGTGTGGCCTGTGCCACTATAAGGACCCTCCCTTCTGCGTGGCCCGCTGC
CCCAGCGGTGTGAAACCTGACCTCTCCTACATGCCATCTGGAAGTTTCCAGATGAGGAGGGCGCATGCCAGCCT
TGCCCCATCAACTGCACCCACTCCTGTGTGGACCTGGATGACAAGGGCTGCCCCGCCGAGCAGAGAGCCAGCCCT
CTGACGTCCATCGTCTCTGCGGTGTTGGCATTCTGCTGGTCTGTTCTTGGGGGTGGTCTTTGGGATCCCTCATC
AAGCGACGGCAGCAGAAGATCCGGAAGTACACGATGCGGAGACTGCTGCAGGAAACGGAGCTGGTGGAGCCGCTG
ACACCTAGCGGAGCGATGCCAACCAGGCGCAGATGCGGATCCTGAAAGAGACGGAGCTGAGGAAGGTGAAGGTG
CTTGGATCTGGCGCTTTTGGCACAGTCTACAAGGGCATCTGGATCCCTGATGGGGAGAATGTGAAAATTCCAGTG
GCCATCAAAGTGTGAGGGAAAACACATCCCCCAAAGCCAACAAAGAAATCTTAGACGAAGCATACTGATGGCT
GGTGTGGGCTCCCATATGTCTCCGCGCTTCTGGGCATCTGCCTGACATCCACGGTGCAGCTGGTGACACAGCTT
ATGCCCTATGGCTGCCTCTTAGACCATGTCCGGGAAAACCGCGGACGCTGGGCTCCCAAGGACCTGCTGAACTGG
TGTATGCAGATTGCCAAGGGGATGAGCTACCTGGAGGATGTGCGGCTCGTACACAGGGACTTGGCCGCTCGGAAC
GTGCTGGTCAAGAGTCCCAACCATGTCAAAATTACAGACTTCGGGCTGGCTCGGCTGCTGGACATTGACGAGACA
GAGTACCATGCAGATGGGGGCAAGGTGCCCATCAAGTGGATGGCGCTGGAGTCCATTCTCCGCCGGCGGTTACC
CACCAGAGTGATGTGTGGAGTTATGGTGTGACTGTGTGGGAGCTGATGACTTTTGGGGCCAAACCTTACGATGGG
ATCCCAGCCCGGAGATCCCTGACCTGCTGGAAGGGGGAGCGGCTGCCCCAGCCCCCATCTGCACCATTGAT
GTCTACATGATCATGGTCAAATGTTGGATGATTGACTCTGAATGTGCGCCAAGATTCCGGGAGTTGGTGTCTGAA
TTCTCCCGCATGCCCAGGGACCCCCAGCGCTTTGTGGTCTATCCAGAAAGAGACTTGGGGCCAGCCAGTCCCTTG
GACAGCACCTTCTACCGCTCACTGCTGGAGGACGATGACATGGGGGACCTGGTGGATGCTGAGGAGTATCTGGTA
CCCCAGCAGGGCTTCTTCTGTCCAGACCTGCCCCGGGCGCTGGGGGCGATGGTCCACCACAGGACCCGAGCTCA
TCTACCAGGAGTGGCGGTGGGGACCTGACACTAGGGCTGGAGCCCTCTGAAGAGGAGGGCCCCAGGTCTCCACTG
GCACCCCTCCGAAGGGGCTGGCTCCGATGTATTTGATGGTGACCTGGGAATGGGGGAGCCAAGGGGCTGCAAGC
CTCCCCACACATGACCCAGCCCTCTACAGCGGTACAGTGAGGACCCACAGTACCCCTGCCCTCTGAGACTGAT
GGCTACGTTGCCCCCTGACCTGCAGCCCCCAGCCTGAATATGTGAACCAGCCAGATGTTCCGGCCCCAGCCCCCT

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FIGURE 4796B

TCGCCCCGAGAGGGCCCTCTGCCTGCTGCCCCGACCTGCTGGTGCCACTCTGGAAAGGGCCAAGACTCTCTCCCCA
GGGAAGAATGGGGTCGTCAAAGACGTTTTTGCCTTTGGGGGTGCCGTGGAGAACCCCGAGTACTTGACACCCAG
GGAGGAGCTGCCCTCAGCCCCACCCTCCTCCTGCCTTCAGCCCAGCCTTCGACAACCTCTATTACTGGGACCAG
GACCCACCAGAGCGGGGGCTCCACCCAGCACCTTCAAAGGGACACCTACGGCAGAGAACCAGAGTACCTGGGT
CTGGACGTGCCAGTGTGAACCAGAAGGCCAAGTCCGCAGAAGCCCTGATGTGTCTCAGGGAGCAGGGAAGGCCT
GACTTCTGCTGGCATCAAGAGGTGGGAGGGCCCTCCGACCACTTCCAGGGGAACCTGCCATGCCAGGAACCTGTC
CTAAGGAACCTTCCTTCCTGCTTGAGTTCCCAGATGGCTGGAAGGGGTCCAGCCTCGTTGGAAGAGGAACAGCAC
TGGGGAGTCTTTGTGGATTCTGAGGCCCTGCCCAATGAGACTCTAGGGTCCAGTGGATGCCACAGCCCAGCTTGG
CCCTTTCCTTCCAGATCCTGGGTACTGAAAGCCTTAGGGAAGCTGGCCTGAGAGGGGAAGCGGCCCTAAGGGAGT
GTCTAAGAACAAAAGCGACCCATTTCAGAGACTGTCCCTGAAACCTAGTACTGCCCCCATGAGGAAGGAACAGCA
ATGGTGTCTAGTATCCAGGCTTTGTACAGAGTGTCTTTCTGTTTAGTTTTACTTTTTTTGTTTTGTTTTTTAAA
GACGAAATAAAGACCCAGGGGAGAATGGGTGTTGTATGGGGAGGCAAGTGTGGGGGTCTTCTCCACACCCACT
TTGTCCATTGCAAATATATTTTGAAAAC

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FIGURE 4797

MELAALCRWGLLLALLPPGAASTQVCTGTDMLRLPASPETHLDMLRHLYQGCQVVQGNLELTYPNALSFLQ
DIQEVQGYVLIAHNQVRQVPLQRLRIVRGTLQFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQRLSLTEILK
GGVLIQRNPQLCYQDTILWKDIFHKNNQLALTIDTNRSRACHPCSPMCKGSRGWGESSEDCQSLTRTVCAGGCA
RCKGPLPTDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVTYNTDTFESMPNPEGRTTFGASCVTACP
YNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRVTSANIQEFAGCKKIFGSLA
FLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPLSVFQNLQVIRGRILHNGAYSLTLQGLGI
SWLGLRSLRELGSGLALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGP
TQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQFQNGSVTCFGPEADQCVACAHYKDPFPCVARC
PSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCFAEQRASPLTSIVSAVVGILLVVVLGVVFGILI
KRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPV
AIKVLRENTSPKANKEILDEAYVMAGVGSPIVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSQDLLNW
CMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPKWMALLESILRRRFT
HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVE
FSRMARDPQRFVVIQNEGLGPASPLDSTFYRSLLEDDDMGDLVDAEYLVPPQGGFFCPDPAPGAGGMVHHRHRS
STRSGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLPTHDPSPQLQRYSEDPTVPLPSETD
GYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERAKTILSPGKNGVVKDVFAFGGAVENPEYLTPO
GGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVPV

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FIGURE 4798

CTTTCCTTTCGCTGCTGCGGCCGCAGCCATGAGTATGCTCAGGCTTCAGAAGAGGCTCGCCTCTAGTGTCTCCG
CTGTGGCAAGAAGAAGGTCTGGTTAGACCCCAATGAGACCAATGAAATCGCCAATGCCAACTCCCGTCAGCAGAT
CCGGAAGCTCATCAAAGATGGGCTGATCATCCGCAAGCCTGTGACGGTCCATTCCCGGGCTCGATGCCGGAAAAA
CACCTTGGCCCGCCGGAAGGGCAGGCACATGGGCATAGGTAAGCGGAAGGGTACAGCCAATGCCGAATGCCAGA
GAAGGTCACATGGATGAGGAGAATGAGGATTTTGCGCCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATCGA
TCGCCACATGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAAACAAGCGGATTCTCATGGAACA
CATCCACAAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGACCAGGCTGAGGCCCGCAGGTCTAAGAC
CAAGGAAGCACGCAAGCGCCGTGAAGAGCGCCTCCAGGCCAAGAAGGAGGAGATCATCAAGACTTTATCCAAGGA
GGAAGAGACCAAGAAATTAAAACCTCCCACTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATTA
AAATAAAACAAGCCTTAATCTGC

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FIGURE 4799

MSMLRLQKRLASSVLRGKKKVWLDNETNEIANANSRQQIRKLIKDGLIIRKPVTVHSRARCRCNTLARRKGRH
MGIGKRKGTANARMPEKVTWMRRMRIILRLLRRYRESKKIDRHMYHSLYLKVGNVFKNKRILMEHIHKLKADKA
RKKLLADQAEARRSKTKEARKRREERLQAKKEEIIKTLKSKEETKK

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FIGURE 4800A

AGCTCCAGCCGCCGTCGCTGCTGCTGTGTAGTTGCAGCCGCGGCGCCTCCCGCCAGCTCGCCTCGGGGAACAG
GACGCGGTGAGCTCCAGGCGXTCCCCGCCCCAGCTTTTCTCGGAACCATGAACCCCACTGCGCCCGGTGCGGC
AAGATCGTGTATCCACGGAGAAGGTGAACTGTCTGGATAAGTTCTGGCATAAAGCATGCTTCCATTGCGAGACC
TGCAAGATGACACTGAACATGAAGAATAAAGGGCTACGAGAAGAAGCCCTACTGCAACGCACACTACCCCAAG
CAGTCTTTCACCATGGTGGCGGACACCCCGGAAAACCTTCGCCTCAAGCAACAGAGTGAGCTCCAGAGTCAGGTG
CGCTACAAGGAGGAGTTTGAAGAACAAGGGCAAAGGTTTCAGCGTAGTGGCAGACACGCCCCAGCTCCAGAGA
ATCAAGAAGACCCAGGACCAGATCAGTAACATAAAATACCATGAGGAGTTTGAAGAAGCCGCATGGGCCCTAGC
GGGGGCGAGGGCATGGAGCCAGAGCGTCGGGATTACAGGACGGCAGCAGCTACCGGCGGGCCCTGGAGCAGCAG
CAGCCTCACCACATCCCGACCAGTGCCCCGTTTACCAGCAGCCCCAGCAGCAGCCGGTGGCCAGTCTCTATGGT
GGCTACAAGGAGCCTGCAGCCCCAGTCTCCATACAGCGCAGCGCCCCATCTGTCTTCAGCACATTCACGGCAT
CGCATCCGTCCTGGGCGTGACCCGTCCTATTCTTCAGTGTCTCTGTTTTTTAAACCTGCGACAGCTTGTGATTCC
TACCCCTCTTCCAGCTTCTTTGCCAACGAGCCTTCTTCTGCCACTTCTGCGGGCTCCCTCCTCTGCGAGGCT
TCCCCCTTGATCGACTTCTTGGTTTTCTCTCTGGATGGAACGGGCATGGGCCTCTCTGGGGGAGGCGAGGCTGGA
ATGGGAGACCTGTTGGCCTGTGGGCCTCACCTGCCCTCTGTTCTCTCCCTCACATCCTCCTGCCAGCTCCTC
ACATACCCACACATTCCAGGGCTGGGGTGAGCCTGACTGCCAGGACCCAGGTGAGGGCTCCCTACATTCCCCA
GAGTGGGATCCACTTCTTGGTTTCTGGGATGGCGATGGGGACTCTGCCGCTGTGTAGGGACCAGTGGGATGGGCT
CTACCTCTCTTTCTCAAAGAGGGGGCTCTGCCACCTGGGGTCTCTCTCCCTACCTCCCTCCTCAGGGGCAACAA
CAGGAGAATGGGGTTCTGCTGTGGGGCGAATTCATCCCTCCCGCGCGTTCTTCGCACACTGTGATTTTGCC
CTCCTGCCACGCAGACCTGCAGCGGGCAAAGAGCTCCCGAGGAAGCACAGCTTGGGTGAGGTTCTTGCCCTTCT
TAATTTTAGGGACAGCTACCGGAAGGAGGGGAACAAGGAGTTCTCTTCCGCAGCCCCCTTTCCCCACGCCACCCC
CAGTCTCCAGGGACCCTTGCTGCTCCTAGGCTGGAAGCCATGGTCCCAGTGTAGGGCAAGGGTGCTCAGG
ACCTTTTGGTCTTCAGCTCCCTCAGCCCCCAGGATCTGGGTAGGTGGCGCTCCTCCTGCTCCTCATGGGAA
GATGTCTCAGAGCCTTCCATGACCTCCCTCCCCAGCCCAATGCCAAGTGGACTTGAGCTGCACAAAGTCAGCA
GGGACCACTAAATCTCCAAGACCTGGTGTGCGGAGGCAGGAGCATGTATGTCTGCAGGTGTCTGACACGCAAGTG
TGTGAGTGTGAGTGTGAGAGATGGGGCGGGGTGTGTCTGTAGGTGTCTCTGGGCCTGTGTGTGGGTGGGGTTAT
GTGAGGGTATGAAGAGCTGTCTTCCCTGAGAGTTTCTCAGAACCACAGTGAGAGGGGAGGGCTCCTGGGGCA
GAGAAGTCTTAGGTTTTCTTTGGAATGAAATCTCTCTTCCCCCATCTCTGAGTGGAGGAAGCCACCAATC
TGCCCTTTGCAGTGTGCAGGGTGGAAGGTAAAGAGTTGGTGTGGAGTTGGGGCTGCCATAGGGTCTGCAGCCTGC
TGGGGCTAAGCGGTGGAGGAAGGCTCTGTCACTCCAGGCATATGTTTCCCCATCTCTGTCTGGGGCTACAGAATA
GGGTGGCAGAAGTGTACCCCTGTGGGTGTCTCCCTCGGGGGCTCTTCCCTAGACCTCCCCCTCACTTACATAAA
GCTCCCTTGAAGCAAGAAAGCTCTCTGCTCATGGGTGGCTGTGACAACCCTGGCCTCACTTGATTCTCTGGT
TTTCTTGCCACCCTCTGGGAGTCCCCATCCATTTTATCTCTGAGCCCAACCAGGCCCTGCCATTGGCCTCTTGT
CCCTTGGCACACTTGTACCCACAGGTGAGGGGCAGGACCTGAAGGTATTGGCCTGTTCAACATCAGTCATCATG
GGTGTTTTGTCAACTGCTTGTAAATTGATTGGGGATGTTGCCCGAATGAGAGGTTGAGGAAAAGACTGTGG
GTGGGGAGGCCCTGCCTGACCCATCCCTTTCTTTCTGGCCCCAGCCTAGGTGGAGGCAAGTGAATATCTTAT
ATTGGGCGATTTGGGGGCTCGGGGAGGCAGAGAATCTTGGGAGTCTTGGGTGGCGTGGTGCACTTCTGTTTCC
TCTTGATCTCAAAGCACAAATGTGGATTTGGGGACCAAGGTCAGGGACACATCCCTTAGAGGACCTGAGTTTGG
GAGAGTGGTGTGAGTGAAGGGAGGAGCAGCAAGAAGCAGCCTGTTTTCACTCAGCTTAATTCCTTCCAGATAA
GGCAAGCCAGTCATGGAATCTTGCTGCAGGCCCTCCCTCTACTCTTCTGCTCTAAATAAGGGGCCGTTTTCTT
ACACACCCCCAGAGAGAGGAGGGACTGTACACTGGTGTGAGTGACCGGGGGCTGCTGGGCGTCTGTTCTTTAC
CAAAACCATCCATCCCTAGAAGAGCACAGAGCCCTGAGGGGCTGGGCTGGGCTGGGCTGAGCCCTGGTCTTCTC
TACAGTTCACAGAGGCTTTTCACTCATTTAATCCCAGGAAGAGGCATCAAAGCTAGAATGTGAATATAACTTT
TGTGGACCAATACTAAGAATAACAAGAAGCCAGTGGTGAGGAAAGTGCCTCTCCAGCACTGCCTCCTGTTTT
CTCCCTCTCATGTCCCTCCAGGAAAATGACTTTATTGCTTAATTTCTGCCTTTCCCCCTCACACATGCATTT
TGGGCTTTTTTTATAGCTGGAATAAATAACCACCTACAAACCTGTATTTAAAAAGAAACAGAAATGACC
ACGTGAAATTTGCCTCTGTCCAAACATTTATCCGTGTGTATGTGTATGTGTGTGAGTGTGTGAAGCCGCCAGTT
CATCTTTTTATATGGGGTGTGTGTCTCATTTTGGTCTGTTTTGGTCCCTCCCTCGTGGGCTGTGTCTGGGATC
AAACCTTTCTGGCCTGTATGATTCTGAACATTTGACTTGAACCACAAGTGAATCTTTCTCTGGTGACTCAAT

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FIGURE 4800B

AAAAGTATAATTTTACCTGC

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FIGURE 4801

CTTTTTCTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGTGGTGGGTCTCTGGTGCGAAATTCCGGATTT
CCTTGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAAACACAGGAGCCAAAAACCTGTATATCATCTCCG
TGAAGGGGATCAAGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGA
AAGGCAAACCAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTCATTGACAAACGAAAGTCATACCGTAGAAAAG
ATGGCGTGTTCCTTTATTTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTCTGCCA
TTACAGGACCAGTAGCAAAGGAGTGTGCAGACTTGTGGCCCCGGATTGCATCCAATGCTGGCAGCATTGCATGAT
TCTCCAGTATATTTGTAAAAAATAAAAAAACTAAACCCATT

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FIGURE 4802

MSKRGRGGSSGAKFRISLGLPVGAVINCADNTGAKNLYIISVKGIKGRNLRLPAAGVGDMVMATVKKGKPELRKK
VHPAVVIRQRKSYRRKDGVFLYFEDNAGVIVNNKGEMKGSAITGFVAKECADLWPRIASNAGSIA

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FIGURE 4803

TGCCAGCGGGGAGGCTGCAGCCGCGGGTTGTTACAGCTGCTGGAGCAGCAGCGGCCCCGCTCCCGGGAACCGTT
CCCGGGCCGTTGATCTTCGGCCCCACACGAACAGCAGAGAGGGGCAGCAGGATGAATGTGGGCACAGCGCACAGC
GAGGTGAACCCCAACACGCGGGTGATGAACAGCCGTGGCATCTGGCTCTCCTACGTGCTGGCCATCGGTCTCCTC
CACATCGTGCTGCTGAGCATCCCGTTTGTGAGTGTCCCTGTCGTCCTGGACCCTACCAACCTCATTACAACATG
GGCATGTATATCTTCTGCACACGGTGAAGGGGACACCTTTGAGACCCCGACCAGGGCAAGGCGAGGCTGCTA
ACCCACTGGGAGCAGATGGATTATGGGGTCCAGTTCACGGCCTCTCGGAAGTTCTTGACCATCACACCCATCGTG
CTGTACTTCCTCACCAGCTTCTACACTAAGTACGACCAGATCCATTTTGTGCTCAACACCGTGTCCCTGATGAGC
GTGCTTATCCCAAGCTGCCCCAGCTCCACGGAGTCCGGATTTTGGAAATCAATAAGTACTGAGAGTGCAGCCCC
TTCCCTGCCAGGGTGGCAGGGGAGGGGTAGGGTAAAAGGCATGTGCTGCAACACTGAAGACAGAAAGAAGAAG
CCTCTGGACACTGCCAGAGATGGGGGTTGAGCCTCTGGCCTAATTTCCCCCTCGCTTCCCCCAGTAGCCAACTT
GGAGTAGCTTGTAGTGGGGTTGGGGTAGGCCCCCTGGGCTCTGACCTTTTCTGAATTTTTTGATCTTTTCCTTTT
GCTTTTTGAATAGAGACTCCATGGAGTTGGTTCATGGAATGGGCTGGGCTCCTGGGCTGAACATGGACCACGCAGT
TGCGACAGGAGGCCAGGGGAAAAACCCCTGCTCACTTGTTTGCCTCAGGCAGCCAAAGCACTTTAACCCCTGCA
TAGGGAGCAGAGGGCGGTACGGCTTCTGGATTGTTTCACTGTGATTCTAGGTTTTTTCGATGCCACGCAGTGTG
TGCTTTTGTGTATGGAAGCAAGTGTGGGATGGGTCTTTGCCTTTCTGGGTAGGGAGCTGTCTAATCCAAGTCCCA
GGCTTTTGGCAGCTTCTCTGCAACCCACCGTGGGTCTGTTGGGAGTGGGAGGGTCAGGTTGGGGAAAGATGG
GGTAGAGTGTAGATGGCTTGGTTCXCAGAGGTGAGGGGGCCAGGGCTGCTGCCATCCTGGCCTGGTGGAGGTTGG
GGAGCTGTAGGAGAGCTAGTGAGTCGAGACTTAGAAGAATGGGGCCACATAGCAGCAGAGGACTGGTGTAAGGGA

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FIGURE 4804

MNVGTAHSEVNPNTVRVMNSRGIWLSYVLAIGLLHIVLLSIPFVSVPVWTLTNLIHNMGMYIFLHTVKGTPFETP
DQGKARLLTHWEQMDYGVQFTASRKFLTITPIVLYFLTSFYTKYDQIHFVLNTVSLMSVLIPKLPQLHGVRIFGI
NKY

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FIGURE 4805

GAATTCGCGGCCGCTGGTTTGCAGCTGCTCCGTCATCGTGC GGCCCGACGCTATCTCGCGCTCGTGTGCAGGCC
GGCTCGGCTCCTGGTCCCCGGTGCGAGGGTTAACGCGAGGCCCGGCCTCGGTCCCCGGACTAGGCCGTGACCCC
GGGTGCCATGAAGCAGGAGGGCTCGGCGCGCGCGCGCGCGGACAAAGCGAAAACCGCCGCCGGCGGAGGAGA
ACAAGAACCCCCACCGCCCGCGCCCCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCAAC
GGGGGAGGCAGACGGCAAGACGGCGGGCAGCGGTTGAGCACTCCAGCGAGAGCTGGACACAGTCACCTTGGA
GGACATCAAGGAGCACGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCTGTGTCGGGGCCCT
GCGGATGTGCTTCCACATCACGCCGCTCAACCACTAIGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTC
AAATAATGCCACTCGAGACTTTTTGCTCCCTTCTGGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCG
TCCCCGACGCGGAAAAGCTGCGTCGACACCCCTCCTGCCTGAAGTGGAAGCCTATCTCCAACCTCTCGTGGTCAT
CTTCATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCA
GAACCGCCGGGCCCTAGACCTTGTAGCCGCAAAGTGTTACTATTATCACGCCCGGGTCTATGAGTTCTTGGACAA
GCTGGATGTGGTGCGCAGCTTCTTGCACTGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGC
CACCTGTGTAACCTCCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCCAA
GTCTGTGTTCCAGAGCAGGCCAACAACAATGAGTGGGCCAGGTACCTCTACTACACAGGGCGAATCAAAGCCAT
CCAGCTGGAGTACTCAGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTGCG
CTTCAAACAGACGGTGCAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTT
CCGCCAGCCCTCCCTCAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTCAGGACAGGAAACCTAGC
CAAGTTCAACCAGGTCCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCT
GCGGCACAACGTGATTAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGC
CCAGAAGCTGCAGTTGGATAGCCCCGAAGATGCAGAGTTTATTGTTGCCAAGGCCATCCGGGATGGTGTCAATTGA
GGCCAGCATCAACCACGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCA
GCTAGCCTTCCACCAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCTC
CAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAA
GGAGATGGCAGAAGATGATGATGACAGCTTCCCTTGAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAG
GCTCTTTCCCTTGGGGGTCCCCTGCCCAGGGCACTGTCCCCATTTCCACACACAGCTCATATGCTGCATTTC
GTGCAGGGGGTGGGGGTGCTGGGAGCCAGCCACCCTGACCTCCCCAGGGCTCTCCCCAGCCGGTGACTTACTG
TACAGCAGGCAGGAGGGTGGGCAGGCAACCTCCCCGGGCAGGGTCTTGCCAGCAGTGTGGGAGCAGGAGGGGAA
GGATAGTTCTGTGTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGATGTTTTTTGAAGCT
TCGATTATGATTTTTTAAACAATAAAAAGTTCTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCGCCGCGAAT
TC

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FIGURE 4806

MKQEGSARRRGADKAKPPPGGGEQEP PPPAPQD VEMKEEAATGGGSTGEADGKTAAAVEHSQRELDTVTLEDI
KEHVKQLEKAVSGKEPRFVLRALRMLPSTSRRLNHYVLYKAVQGFFTSNNATRD FLLPFLEEPMDTEADLQFRPR
TGKAASTPLLPEVEAYLQLLVIFMMNSKRYKEAQKISDDL MQKISTQNRALDLVAAKCYYYHARVYEF LDKLD
VVR SFLHARLRTATLRHDADGQATLLNLLLRNYLHYSLYDQAEKLVSKSVFPEQANNNEWARYLYYTGR IKAIQL
EYSEARRMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSLKRSLMPYFLLTQAVRTGNLAKF
NQVLDQFGEKFQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDA EFIVAKAIRDGVIEAS
INHEKGYVQSKEMIDIYSTREPQLAFHQRI SFCLDIHNSVKAMRFPPKSYNKDLES AEERREREQQDLEFAKEM
AEDDDDSFP

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FIGURE 4807

CTCCTCTCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACCATGACCACCTCCATCCGCCAGTTCACC
TCCTCCAGCTCCATCAAGGGCTCCTCCGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCGGCTGTCTGGCGGC
CTGGGTGCCGGCTCCTGCAGGCTGGGATCTGCTGGCGGCCTGGGCAGCACCTCGGGGGTAGCAGCTACTCCAGC
TGCTACAGCTTTGGCTCTGGTGGTGGCTATGGCAGCAGCTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGTGAG
AAGGCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCAAC
ACTGAGCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGGCCCGGGGGCCCGCCGTGACTACAGCCAGTAC
TACAGGACAATTGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACAGATT
GACAATGCCCGTCTGGCTGCTGATGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGCGCCTGAGTGTGGAG
GCCGACATCAATGGCCTGCGCAGGGTGTGGATGAGCTGACCTGGCCAGAGCCGACCTGGAGATGCAGATTGAG
AACCTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCTGCCAGGCCAGGTGGGT
GGTGAGATCAATGTGGAGATGGACGCTGCCCCAGGCGTGGACCTGAGCCGCATCCTCAACGAGATGCGTGACCAG
TATGAGAAGATGGCAGAGAAGAACCACAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAAGTGAACCGC
GAGGTGGCCACCAACAGTGAGCTGGTGCAGAGTGGCAAGAGTGAGATCTCGGAGCTCCGGCGCACCATGCAGGCC
TTGGAGATAGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGC
TACTGCGTGCAGCTGTCCCAGATCCAGGGGCTGATTGGCAGCGTGGAGGAGCAGCTGGCCCAGCTTCGCTGCGAG
ATGGAGCAGCAGAACCAGGAATACAAAATCCTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTAC
CGCCGCCTGCTGGAGGGAGAGGATGCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCCGTCAGGTGCGT
ACCATGTGAAGAGGTCCAGGATGGCAAGGTCATCTCCTCCCGCAGCAGGTCCACCAGACCACCCGCTGAGGA
CTCAGCTACCCCGGCCGCCACCCAGGAGGCAGGGAGCAGCCGCCCCATCTGCCCCACAGTCTCCGGCCTCTCCA
GCCTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCTTGCTGATGACAATAAAGCTTGTTGACTCAGCTAAA
AAAAAAAAAAAA

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FIGURE 4808

MTTSIRQFTSSSSIKGSSGLGGSSRTSCRLSGGLGAGSCRLGSAGGLGSTLGGSSYSSCYSGSGGGYGSSF
VDGLLAGGEKATMQNLNDRSLASYLDKVRAL EEANTELEVKIRDWYQRQAPGPARDYSQYYRTIEELQNKILTATV
DNANILLQIDNARLAADDFRTKFETEQALRLSVEADINGLRRVLDELTLARADLEMQIENLKEELAYLKKNHEEE
MNALRGQVGGEINVEMDAAPGV DLSRILNEMRDQYEKMAEKNRKAEDWFFSKTEELNREVATNSELVQSGKSEI
SELRRMQALEIELQSQLSMKASLEGNLAETENRYCVQLSQIQGLIGSVEEQLAQLRCEMEQQNQEYKILLDVKT
RLEQEIATYRRLLEGEDAHLTQYKKEPVTTTRQVRTIVEEVQDGKVISSREQVHQTTTR

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FIGURE 4809

ATGACCACCTGCAGCCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GGCGGCTCCAGCCGCATCTCCTCCGTCTGGCCGGAGGGTCCTGCCGTGCCCCAGCACCTACGGGGGCGGCCTG
TCTGTCTCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGC
AGCAGCTTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTCGGTGGTGGCTTGGGTGCT
GGCTTTGGTGGTGGTTTTGCTGGTGGTGGTGGTGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAAT
GACCGCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGT
GACTGGTACCAGAGGCAGCGGCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGG
AACAAGATCATTGCGGCCACCATTGAGAATGCGCAGCCCATTTTGCAGATTGACAATGCCAGGCTGGCAGCCGAT
GACTTCAGGACCAAGTATGAGCACGAACTGGCCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGG
GTGTTGGATGAGCTGACCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTAC
CTGAGGAAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTGAGACCGCGGAGATGTGAACGTGGAGATGGAT
GCTGCACCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAAC
CGCAGAGACGCTGAGACCTGGTTCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTG
GTACAGAGCAGCCGAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAG
CTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATC
CAGGGACTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTAC
CAGATCTTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCTGCTGGAGGGCGAGGAT
GCCCACCTTTCTCCAGCAAGCATCTGGCCAATCTATTCTTCCCGCGAGGTCTTACCTCCTCCTCGTCTCT
TCGAGCCGTCAGACCCGGCCCATCTCAAGGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTAG

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FIGURE 4810

CGGGGGTTGCTCCGTCCGTGCTCCGCCTCGCCATGACTTCCTACAGCTATCGCCAGTCGTCGGCCACGTGCTCCT
TCGGAGGCCTGGGCGGCGGCTCCGTGCGTTTTGGGCCGGGGGTCGCTTTTCGCGCGCCAGCATTACGGGGGGCT
CCGGCGGCCGCGGCGTATCCGTGTCCTCCGCCCCGCTTTGTGTCCTCGTCCTCCTCGGGGGGCTACGGCGGCGGCT
ACGGCGGCGTCTGACCGCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACC
GCCTGGCCTCCTACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACT
GGTACCAGAAGCAGGGGCTGGGCCCTCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACA
AGATTCTTGGTGCCACCATTGAGAACTCCAGGATTGTCCTGCAGATCGACAACGCCCCGTCTGGCTGCAGATGACT
TCCGAACCAAGTTTGTAGACGGAACAGGCTCTGCGCATGAGCGTGGAGGCCGACATCAACGGCCTGCGCAGGGTGC
TGGATGAGCTGACCCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAGCTGGCCTACCTGA
AGAAGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTGAGTGTGGAGGTGGATTCCG
CTCCGGGCACCGATCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGAGGTGATGGCCGAGCAGAACCGGA
AGGATGCTGAAGCCTGGTTCACCAGCCGGACTGAAGAATTGAACCGGGAGGTGCTGGCCACACGGAGCAGCTCC
AGATGAGCAGGTCCGAGGTACTGACCTGCGGCGCACCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGA
GCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGG
CGCTGATCAGCGGTATTGAAGCCCAGCTGGCGGATGTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTAACAGC
GGCTCATGGACATCAAGTCGCGGCTGGAGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATC
ACTACAACAATTTGTCTGCCTCCAAGGTCTCTTGAGGGCAGCAGGCTCTGGGGCTTCTGCTGTCCTTTGGAGGGTG
TCTTCTGGGTAGAGGGATGGGAAGGAAGGGACCCTTACCCCGGCTCTTCTCCTGACCTGCCAATAAAAATTTAT
GGTCCAAGGG

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FIGURE 4811

MTSYSYRQSSATSSFGLGGGSVRFGPGVAFRAPSIHGGSGGRGVS SVSSARFVSSSSSGGYGGGYGGVLTASDGL
LAGNEKLTMQNLNDRLASYLDKVRALEAANGELEVKIRDWYQKQGPGPSRDYSHYYTTIQDLRDKILGATIENSR
IVLQIDNARLAADDFRTKFETEQALRMSVEADINGLRRVLDELTLARTDLEMQIEGLKEELAYLKKNHEEEISTL
RGQVGGQVSVEVDSAPGTDLAKILSDMRSQYEVMAEQNRKDAEAWFTSRTEELNREVAGHTEQLQMSRSEVTDLR
RTLQGLEIELSQLSMKAALEDTLAETEARFGAQLAHIQALISGIEAQLADVRADSERQNQEYQRLMDIKSRLEQ
EIATYRSLLLEGQEDHYNNLSASKVL

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FIGURE 4812

GGTACCTCCTGCCAGCACCTCTTGGGTTTTGCTGAGAACTCACGGGCTCCAGCTACCTGGCCATGACCACCACATT
TCTGCAAACCTTCTTCCCTCCACCTTTGGGGGTGGCTCAACCCGAGGGGGTTCCCTCCTGGCTGGGGGAGGTGGCTT
TGGTGGGGGGAGTCTCTCTGGGGGAGGTGGAAGCCGAAGTATCTCAGCTTCTTCTGCTAGGTTTGTCTCTTCAGG
GTCAGGAGGAGGATATGGGGGTGGCATGAGGGTCTGTGGCTTTGGTGGAGGGGCTGGTAGTGTTCGGTGGAGG
CTTTGGAGGGGGCGTTGGTGGGGTTTTGGTGGTGGCTTTGGTGGTGGCGATGGTGGTCTCCTCTCTGGCAATGA
GAAAATTACCATGCAGAACCTCAATGACCGCTGGCCTCTACCTGGACAAGGTACGTGCCCTGGAGGAGGCCAA
TGCTGACCTGGAGGTGAAGATCCATGACTGGTACCAGAAGCAGACCCAGCCAGCCAGAATGCGACTACAGCCA
ATACTTCAAGACCATTGAAGAGCTCCGGGACAAGATCATGGCCACCACCATCGACAACCTCCCGGGTCATCTGGA
GATCGACAATGCCAGGCTGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGGGCGT
TGAGGCTGACATCAACGGCTTGCGCCGAGTCTTGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGAT
CGAGGGCCTGAATGAGGAGCTAGCCTACCTGAAGAAGAACCACGAAGAGGAGATGAAGGAGTTCAGCAGCCAGCT
GGCCGGCCAGGTCAATGTGGAGATGGACGCAGCACCGGGTGTGGACCTGACCCGTGTGCTGGCAGAGATGAGGGA
GCAGTACGAGGCCATGGCGGAGAAGAACC GCCGGATGTCGAGGCCTGGTTCTTCAGCAAGACTGAGGAGCTGAA
CAAAGAGGTGGCCTCCAACACAGAAATGATCCAGACCAGCAAGACGGAGATCACAGACCTGAGACGCACGATGCA
GGAGCTGGAGATCGAGCTGCAGTCCAGCTCAGCATGAAAGCTGGGCTGGAGAACTCACTGGCCGAGACAGAGTG
CCGCTATGCCACGCAGCTGCAGCAGATCCAGGGGCTCATGGTGGCTGGAGGCCAGCTGAGTGAGCTCCGATG
CGAGATGGAGGCTCAGAACCAGGAGTACAAGATGCTGCTTGACATAAAGACACGGCTGGAGCAGGAGATCGCTAC
TTACCGCAGCCTGCTCGAGGGCCAGGATGCCAAGATGGCTGGCATTGGCATCAGGGAAGCCTCTTCAGGAGGTGG
TGGTAGCAGCAGCAATTTCCACATCAATGTAGAAGAGTCAGTGGATGGACAGGTGGTTTCTTCCCAAGAGAGA
AATCTAAGTGTCTATTGCAGGAGAAACGTCCCTTGCCACTCCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCA
GAGGGCCTGCACATGCAAACCTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGGTCCCTCGGTCTTTTATTTAGGG
CTTTGCATGCGCTCTATTCCCCCTCTGCCTCTCCCCACCTTCTTTGGAGCAAGGAGATGCAGCTGTATTGTGTAA
CAAGCTCATTGTACAGTGTCTGTTTCATGTAATAAAGAATTACTTTTCCTTTTGCAAAT

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FIGURE 4813

MTTFLQTSSSTFGGGSTRGGSLLAGGGGFGGGSLSGGGGSRSSISASSARFVSSGSGGGYGGGMRVCGFGGGAGS
VFGGGFGGGVGGGFGGGFGGGDGGLLSGNEKITMQNLNDRLASYLKVRAL E E A N A D L E V K I H D W Y Q K Q T P A S P E
CDYSQYFKTIEELRDKIMATTIDNSRVILEIDNARLAADDFRLKYENELALRQGV E A D I N G L R R V L D E L T L A R T D
LEMQIEGLNEELAYLKKNHEEEMKEFSSQLAGQVNVEMDAAPGVDLTRVLAEMREQYEAMAEKNRRDVEAWFFSK
TEELNKEVASNTEMIQTSKTEITDLRRTMQELEIELQSQLSMKAGLENSLAETECRYATQLQQIQGLIGGLEAQL
SELRCEMEAQNQEYKMLLDIKTRLEQEIATYRSLEGGQDAKMAGIGIREASSGGGGSSSNFHINVEESVDGQVVS
SHKREI

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FIGURE 4814

GGCCAAGCAAGCTTCTATCTGCACCTGCTCTCAATCCTGCTCTCACCATGAGCCTCCGCCTGCAGAGCTCCTCTG
CCAGCTATGGAGGTGGTTTCGGGGGTGGCTCTTGCCAGCTGGGAGGAGGCCGTGGTGTCTCTACCTGTTCAACTC
GGTTTGTGTCTGGGGGATCAGCTGGGGGCTATGGAGGCGGCGTGAGCTGTGGTTTTGGTGGAGGGGCTGGTAGTG
GCTTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTATGGAGGTGGCCTTGGAGGTGGCTTTGGTGGGGGTT
TTGCTGGTGGCTTTGTTGACTTTGGTGCTTGTGATGGCGGCCCTCCTACTGGCAATGAGAAGATCACCATGCAGA
ACCTCAACGACCGCCTGGCTTCTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGA
AGATCCGTGACTGGCACCTGAAGCAGAGCCCAGCTAGCCCTGAGCGGGACTACAGCCCCTACTACAAGACCATTG
AAGAGCTCCGGGACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGC
TGGCTGTGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCGTGGAGGCCGACATCAACG
GCCTGCGCCGGGTGCTGGATGAGCTCACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATGAAG
AGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTCGGCCAGGTCAACG
TGGAGATGGATGCCACCCAGGCATTGACCTGACCCGCGTGCTGGCAGAGATGAGGGAGCAGTACGAGGCCATGG
CAGAGAGGAACCGCCGGGATGCTGAGGAATGGTTCCACGCCAAGAGTGACAGAGCTGAACAAGGAGGTGTCTACCA
ACACTGCCATGATTAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCACGCTCCAAGGCCTGGAGATTGAGC
TGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACACGGTGGCAGAGACGGAGTGCCGCTATGCCCTGCAGC
TGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCAGCTGAGCGAGCTCCGCAGTGAGATGGAGTGCCAGA
ACCAAGAGTACAAGATGCTGCTGGACATCAAGACACGTCTGGAGCAGGAGATCGCCACCTACCGCAGCCTGCTCG
AGGGCCAGGACGCCAAGAAGCGTCAGCCCCCGTTAGCACCTCTGTTACCACGACTTCTAGTGCCTCTGTTACCACC
ACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCTTAAATCTGCCTGGCGTCCCCTCCCTCTGTC
TTCAGCACCCAGAGGAGGAGAGAGCCGGCAGTTCCCTGCAGGAGAGAGGAGGGGCTGCTGGACCCAAGGCTCAGT
CCCTCTGCTCTCAGGACCCCCGTCTGACTCTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTTCCGGTCGGA
TCTCTCTCCTCTCTGACCTGGATACGCTTTGGTTCTCAACTTCTCTACCCCAAAGAAAAGATTATTCAATAAAG
TTTCTGCCTTTCTGCAAACATAAAAA

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FIGURE 4815

MSLRLOSSSASYGGGFGGGSCQLGGGRGVSTCSTRFVSGGSAGGYGGGVSCGFGGGAGSGFGGGYGGGLGGGYGG
GLGGGFGGGFAGGFVDFGACDGGLLTGNEKITMQNLNDRLASYLEKVRALEEANADLEVKIRDWHLKQSPASPER
DYSPIYKTIEELRDKILTATIENNRVILEIDNARLAVDDFRLKYENELALRQSVEADINGLRRVLDLTLSKTDL
EMQIESLNEELAYMKKNHEEEMKEFSNQVVGQVNVEMDATPGIDLTRVLAEMREQYEAMAERNRRDAEEWFHAKS
AELNKEVSTNTAMIQTSKTEITELRRTLQGLEIELQSLSMKAGLENTVAETECRYALQLQQIQGLISSIEAQLS
ELRSEMECQNQEYKMLLDIKTRLEQEIATYRSLLEGQDAKKRQPP

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FIGURE 4816

ACCCGAGCACCTTCTCTTCACTCAGCCAACTGCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACTACCTGCAG
CCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGCTCCAGCCG
CATCTCCTCCGTCTGGCCGGAGGGTCCTGCCGCGCCCCAGCACCTACGGGGGCGGCCTGTCTGTCTCATCCTC
CCGCTTCTCCTCTGGGGGAGCCTACGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC
TGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCTGGCCTCCTACCT
GGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC
AGTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGCTGGACGAAGTACCT
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT
GAGCCGCATTCTGAACGAGATGCGTGACCAGTATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGAATG
GTTCTTACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT
GGAGAACAGCCTGGAGGAGACCAAAGGTCGCTACTGCATGCAGCTGGCCAGATCCAGGAGATGATTGGCAGCGT
GGAGGAGCAGCTGGCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAAGGAGTACAAGATCCTGCTGGACGTGAA
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCGCCTGCTGGAGGGCGAGGACGCCCACCTCTCCTCCTCCCA
GTTCTCCTCTGGATCGCAGTCATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTCATGGATGT
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCTTCGCACCAAGAACTGAGGGCTGCCAGCCCCGCTCAG
GCCTAGGAGGCCCCCGTGTGGACACAGATCCCACTGGAAGATCCCCTCTCCTGCCAAGCACTTCACAGCTGGA
CCCTGCTTACCCTCACCCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT

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FIGURE 4817

MTTCRQFTSSSSMKGSCGIGGGIGGGSSRISSVLGGGSCRAPSTYGGGLSVSSSRFSSGGAYGLGGGYGGGFSS
SSSSFGSGFGGGYGGGLGAGLGGGFAGGDGLLVGSEKVTMQLNDRLASYLDKVRALEEANADLEVKIRDW
YQRQRP AEIKDYSPYFKTIEDLRNKILTATVDNANVLLQIDNARLAADDFR TKYETELNLRMSVEADINGLRRVL
DELT LARADLEMQIESLKEELAYLKKNH EEMNALRGQVGGDVNVEMDAAPGV DLSRILNEMRDQY EKMAEKNRK
DAEEWFFTKTEELNREVATNSELVQSGKSEISELRRTMQLNLEIELQSQLSMKASLENSLEETKGRYCMQLAQIQE
MIGSVEEQLAQLRCEMEQQNQEYKILLDVKTRLEQEIATYRRLLEGED AHLSSSQFSSGSQSSRDVTSSSRQIRT
KVMDVHDGKVVSTHEQVLR TKN

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FIGURE 4818

AGCCCCCTGCCCTCGCCGCCCGCCGCTGCCTGGGCGGGCCGAGGATGCGGCGCAGCGCCTCGGCGGCCAGGC
TTGCTCCCCCTCCGGCACGCTGCTAACTTCCCCCGCTACGTCCCCGTTGCCCCGCCGGGCCGCCCCGTCTCCCCG
CGCCCTCCGGGTGCGGTCTCTCAGGAGCGCCAGGCGCTGCCGCGGTGTGCCCTCCGCCGCTCGCCCCGCGCCCCG
CGCTCCCCGCTGCGCCCAGCGCCCCGCGCCCGCAGTCCTCGGGCGGTATGCTGCCCCCTCTGCTCGTGG
CCGCCCTGCTGCTGGCCGCCGGGCCCGGGCCGAGCCTGGGCGACGAAGCCATCCACTGCCCGCCCTGCTCCGAGG
AGAAGCTGGCGCGCTGCCGCCCCCGTGGGCTGCGAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCA
CTTGCGCCCTGGGCTTGGGGATGCCCTGCGGGGTGTACACCCCCGTTGCGGCTCGGGCCTGCGCTGCTACCCGC
CCCAGGGGTGGAGAAGCCCCTGACACACTGATGCACGGGCAAGGCGTGTGCATGGAGCTGGCGGAGATCGAGG
CCATCCAGGAAAGCCTGCAGCCCTCTGACAAGGACGAGGGTGACCACCCCAACAACAGCTTCAGCCCTGTAGCG
CCCATGACCGCAGGTGCCCTGCAGAAGCACTTCGCCAAAATTTCGAGACCGGAGCACCAGTGGGGGCAAGATGAAGG
TCAATGGGGCGCCCCGGGAGGATGCCCGGCCGTGTGCCCCAGGGCTCCTGCCAGAGCGAGCTGCACCGGGCGCTGG
AGCGGCTGGCCGCTTCACAGAGCCGCACCCACGAGGACCTCTACATCATCCCCATCCCCAACTGCGACCGCAACG
GCAACTTCCACCCCAAGCAGTGTACCCAGCTCTGGATGGGCGAGCGTGGCAAGTGTGTTGTGTGGACCGGAAGA
CGGGGGTGAAGCTTCCGGGGGCGCTGGAGCCAAAGGGGGAGCTGGACTGCCACCAGCTGGCTGACAGCTTTTCGAG
AGTGAGGCCTGCCAGCAGGCCAGGGACTCAGCGTCCCCTGCTACTCCTGTGCTCTGGAGGCTGCAGAGCTGACCC
AGAGTGGAGTCTGAGTCTGAGTCTGTCTCTGCTGCGGCCAGAAAGTTTCCCTCAAATGCGCGTGTGCACGTGT
GCGTGTGCGTGCCTGT
TTGGTGTACACAGCCCAAGAGGACTGAGACTGGCACTTAGCCCAAGAGGTCTGAGCCCTGGTGTGTGTGTGTGTGT
CGATCCTGGATTCACTCACTCACTCATTCCCTCACTCATCCAGCCACCTAAAAACATTTACTGACCATGTACTAC
GTGCCAGCTCTAGTTTTAGCCTTGGGAGGTTTTATTCTGACTTCCTCTGATTTTGGCATGTGGAGACACTCCTA
TAAGGAGAGTTCAAGCCTGTGGGAGTAGAAAAATCTCATTCCCAGAGTCAGAGGAGAAGAGACATGTACCTTGAC
CATCGTCCCTTCTCTCAAGCTAGCCAGAGGGTGGGAGCCTAAGGAAGCGTGGGGTAGCAGATGGAGTAATGGTCA
CGAGGTCCAGACCCACTCCCAAAGCTCAGACTTGCCAGGCTCCCTTTCTCTTCTTCCCCAGGTCTCTCTTTAGG
TCTGTTGTTGCACCATCTGCTTGTTGGTGGCTGGCAGCTGAGAGCCCTGCTGTGGGAGAGCGAAGGGGGTCAAAGG
AAGACTTGAAGCACAGAGGGCTAGGGAGGTGGGTACATTTCTCTGAGCAGTCAGGGTGGGAAGAAAGAATGCAA
GAGTGGACTGAATGTGCCTAATGGAGAAGACCCACGTGCTAGGGGATGAGGGGCTTCTGGGTCTGTTCCTAC
CCCATTTGTGGTCACAGCCATGAAGTACCGGGATGAACCTATCCTTCCAGTGGCTCGCTCCCTGTAGCTCTGCC
TCCCTCTCCATATCTCCTTCCCTACACCTCCCTCCCCACACCTCCCTACTCCCTGGGCATCTTCTGGCTTGAC
TGGATGGAAGGAGACTTAGGAACCTACCAGTTGGCCATGATGTCTTTCTT

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FIGURE 4819A

CCCTTCACGACCGTCACCATGGAAGTGTACCATTGCAGCCTGTAAATGAAAATATGCAAGTCAACAAAATAAAG
AAAAATGAAGATGCTAAGAAAAGACTGTCTGTTGAAAGAATCTATCAAAAGAAAACACAATTGGAACATATTTTG
CTCCGCCAGACACCTACATTGGTTCTGTGGAATTAGTGACCCAGCAAATGTGGGTTTACGATGAAGATGTTGGC
ATTAACATAGGGGAAGTCACTTTTGTCTGGTTTGTACAAAATCTTTGATGAGATTCTAGTTAATGCTGCGGAC
AACAAACAAAGGGACCCAAAATGTCTGTATTAGAGTCACAATTGATCCGGAACAAATTTAATTAGTATATGG
AATAATGGAAGGATTTCCTGTTGTTGAACACAAAGTTGAAAAGATGTATGTCCAGCTCTCATATTTGGACAG
CTCCTAACTTCTAGTAACTATGATGATGATGAAAAGAAAGTGACAGGTGGTTCGAAATGGCTATGGAGCCAAATTG
TGTAACATATTTCAGTACCAAATTTACTGTGGAACAGCCAGTAGAGAATACAAGAAAATGTTCAAACAGACATGG
ATGGATAATATGGGAAGAGCTGGTGAGATGGAACCAAGCCCTTCAATGGAGAAGATTATACATGTATCACCTTT
CAGCCTGATTTGTCTAAGTTTAAATGCAAAGCCTGGACAAAGATATTGTTGCACTAATGGTCAGAAGAGCATAT
GATATTGCTGGATCCACCAAAGATGTCAAAGTCTTTCTTAATGGAAATAAACTGCCAGTAAAAGGATTTCTGTAGT
TATGTGGACATGTATTTGAAGGACAAGTTGGATGAACTGGTAACTCCTTGAAAGTAATACATGAACAAGTAAAC
CACAGGTGGGAAGTGTGTTAACTATGAGTGAAAAGGCTTTTCAGCAAATTAGCTTTGTCAACAGCATTGCTACA
TCCAAGGGTGGCAGACATGTTGATTATGTAGCTGATCAGATTGTGACTAACTTGTGATGTTGTGAAGAAGAAG
AACAAAGGGTGGTGTGTCAGTAAAAGCACATCAGGTGAAAATCACATGTGGATTTTTGTAAATGCCTTAATTGAA
AACCCAACCTTTGACTCTCAGACAAAAGAAAACATGACTTTACAACCCAAGAGCTTTGGATCAACATGCCAATTG
AGTGAAAATTTATCAAAGCTGCCATTGGCTGTGGTATTGTAGAAAGCATACTAACTGGGTGAAGTTTAAAGGCC
CAAGTCCAGTTAAACAAGAAGTGTTCAGCTGTAAACATAATAGAATCAAGGGAATTCCCAAACCTCGATGATGCC
AATGATGCAGGGGGCCGAAACTCCACTGAGTGACGCTTATCTGACTGAGGGAGATTTCAGCCAAAACCTTTGGCT
GTTTCAGGCCCTTGGTGTGGTTGGGAGAGACAAATATGGGGTTTTCCCTCTTAGAGGAAAAATACTCAATGTTGCA
GAAGCTTCTCATAAGCAGATCATGAAAATGCTGAGATTAACAATATCATCAAGATTGTGGGTCTTCAGTACAAG
AAAACTATGAAGATGAAGATTCATTGAAGACGCTTCGTTATGGGAAGATAATGATTATGACAGATCAGGACCAA
GATGGTTCCACATCAAAGGCTTGCTGATTAATTTTATCCATCACAACTGGCCCTCTCTCTGCGACATCGTTTT
CTGGAGGAATTTATCACTCCCATTGTAAAGGTATCTAAAAACAAGCAAGAAATGGCATTTTACAGCCTTCCTGAA
TTTGAAGAGTGAAGAGTTCTACTCCAAATCATAAAAATGGAAGTCAAATATTACAAAGGTTTGGGCACCAGC
ACATCAAAGGAAGCTAAAGAATACTTGCAGATATGAAAAGACATCGTATCCAGTTCAAATATTCTGGTCTGAA
GATGATGCTGCTATCAGCCTGGCCTTAGCAAAAAACAGATAGATGATCGAAAGGAATGGTTAACTAATTTTCATG
GAGGATAGAAGACAACGAAAGTTACTTGGGCTTCCTGAGGATTACTTGTATGGACAACTACCACATATCTGACA
TATAATGACTTCATCAACAAGGAACCTTATCTTGTCTCAAATCTGATAACGAGAGATCTATCCCTTCTATGGTG
GATGGTTTTGAAACCAGGTGAGAGAAAGGTTTTGTTTACTTGCTTCAAACGGAATGACAAGCGAGAAGTAAAGGTT
GCCCCAATTAGCTGGATCAGTGGCTGAAATGTCTTCTTATCATCATGTTGAGATGTCCTAATGATGACCATTATC
AATTTGGCTCAGAATTTTGTGGGTAGCAATAATCTAAACCTCTTGACGCCATTGGTCAGTTTGGTACCAGGCTA
CATGGTGGCAAGGATTCTGCTAGTCCACGATACATCTTTACAATGCTCAGCTCTTTGGCTCGATTGTTATTTCCA
CCAAAAGATGATCACACGTTGAAGTTTTTATATGATGACAACCAGCGTGTGAGCCTGAATGGTACATTCCTATT
ATTCCCATGGTGCTGATAAATGGTGCTGAAGGAATCGGTACTGGGTGGTCTGCAAAATCCCCAACCTTGATGTG
CGTGAAATTGTAAATAACATCAGGCGTTTGATGGATGGAGAAGAACCTTTGCCAATGCTTCCAAGTTACAAGAAC
TTCAAGGGTACTATTGAAGAACTGGCTCCAAATCAATATGTGATTAGTGGTGAAGTAGCTATTCTTAATTCTACA
ACCATTGAAATCTCAGAGCTTCCCGTCAGAACATGGACCCAGACATACAAAGAACAAGTTCTAGAACCATGTTG
AATGGCACCAGAGAAGACACCTCCTCTCATAACAGACTATAGGGAATACCATACAGATACCACTGTGAAATTTGTT
GTGAAGATGACTGAAGAAAACTGGCAGAGGCAGAGAGATTGGACTACACAAAGTCTTCAAACCTCCAACTAGT
CTCACATGCAACTCTATGGTGTCTTTTGACCACGTAGGCTGTTTAAAGAAATATGACACGGTGTGGATATTCTA
AGAGACTTTTTTGAACCTCAGACTTAAATATTATGGATTAAGAAAAGAAATGGCTCCTAGGAATGCTTGGTGCTGAA
TCTGCTAAACTGAATAATCAGGCTCGCTTTATCTTAGAGAAAATAGATGGCAAAATAATCATTGAAAAATAAGCCT
AAGAAAGAAATTAATTAAGTTCTGATTGAGAGGGGATATGATTCCGATCCTGTGAAGGCCTGGAAAGAAGCCAG
CAAAAGGTTCCAGATGAAGAAGAAAATGAAGAGAGTGACAACGAAAAGGAACTGAAAAGAGTGACTCCGTAACA
GATTCTGGACCAACCTTCAACTATCTTCTTGATATGCCCCCTTTGGTATTTAACCAGGAAAAGAAAGATGAACCT
TGCAGGCTAAGAAATGAAAAGAAACAAGAGCTGGACACATTAAGAAAAGAGTCCATCAGATTTGTGGAAAGAA
GACTTGGCTACATTTATTGAAGAATTGGAGGCTGTTGAAGCCAAGGAAAAACAAGATGAACAAGTCGGAATTCCT

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FIGURE 4819B

GGGAAAGGGGGAAGGCCAAGGGGAAAAAACACAAATGGCTGAAGTTTTGCCTTCTCCGCGTGGTCAAAGAGTC
ATTCCACGAATAACCATAGAAATGAAAGCAGAGGCAGAAAAAGAAAAATAAAAAGAAATTAAGAATGAAAACTACT
GAAGGAAGCCCTCAAGAAGATGGTGTGGAAGTGAAGGCCTAAAAACAAAGATTAGAAAAGAAACAGAAAAGAGAA
CCAGGTACAAAGACAAAGAAACAAACTACATTGGCATTAAAGCCAATCAAAAAAGGAAAGAGAGAAATCCCTGG
TCTGATTGAGAATCAGATAGGAGCAGTGACGAAAGTAATTTTGATGTCCCTCCACGAGAAACAGAGCCACGGAGA
GCAGCAACAAAAACAAAATTACAAATGGATTGGATTGAGATGAAGATTCTCAGATTTTGATGAAAAAAGTATGAT
GATGAAGATTTTGTCCCATCAGATGCTAGTCCACCTAAGACCAAACTTCCCCAAAAGTATAGTAACAAAGAACTG
AAACCACAGAAAAGTGTGCTGTCAGACCTTGAAGCTGATGATGTTAAGGGCAGTGATCCACTGTCTTCAAGCCCT
CCTGCTACACATTTCCAGATGAACTGAAATTACAAACCCAGTTCCATAAAAAGAAATGTGACAGTGAAGAAGACA
GCAGCAAAAAGTCAGTCTTCCACCTCCACTACCGGTGCCAAAAAAGGGCTGCCCAAAAGGAACTAAAAGGGAT
CCAGCTTTGAATTCGGTGTCTCTCAAAAGCCTGATCCTGCCAAAACCAAGAATCGCCGCAAAAGGAAGCCATCC
ACTTCTGATGATTCTGACTCTAATTTTGAGAAAATTGTTTCGAAAGCAGTCACAAGCAAGAAATCCAAGGGGAG
AGTGATGACTTCCATATGGACTTTGACTCAGCTGTGGCTCCTCGGGCAAAATCTGTACGGGCAAGAAACCTATA
AAGTACCTGGAAGAGTCAGATGAAGATGATCTGTTTTAAATGTGAGGCGATTATTTTAAGTAATTATCTTACCA
AGCCCAAGACTGGTTTTAAAGTTACCTGAAGCTCTTAAGTTCTCCCTCTGAATTTAGTTTGGGGAAGGTGTTT
TTAGTACAAGACATCAAAGTGAAGTAAAGCCCAAGTGTCTTTAGCTTT

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FIGURE 4820

GCCATCTGGGCCCAGGCCCATGCCCCGAGGAGGGGTGGTCTGAAGCCCACCAGAGCCCCCTGCCAGACTGTCTG
CCTCCCTTCTGACTGTGGCCGCTTGGCATGGCCAGCAACAGCAGCTCCTGCCCCGACACCTGGGGGCGGGCACCTC
AATGGGTACCCGGTGCCTCCCTACGCCTTCTTCTTCCCCCTATGCTGGGTGGACTCTCCCCGCCAGGCGCTCTG
ACCACTCTCCAGCACCAGCTTCCAGTTAGTGGATATAGCACACCATCCCCAGCCACCATTGAGACCCAGAGCAGC
AGTTCTGAAGAGATAGTGCCAGCCCTCCCTCGCCACCCCCTCTACCCCGCATCTACAAGCCTTGCTTTGTCTGT
CAGGACAAGTCTCAGGCTACCACTATGGGGTCAGCGCCTGTGAGGGCTGCAAGGGCTTCTTCCGCCGAGCATC
CAGAAGAACATGGTGTACACGTGTACCGGGACAAGAACTGCATCATCAACAAGGTGACCCGGAACCGCTGCCAG
TACTGCCGACTGCAGAAGTGCTTTGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACAAGAAGAAG
AAGGAGGTGCCAAGCCCCGAGTGCTCTGAGAGCTACACGTGACGCCGAGGTGGGGGAGCTCATTGAGAAGGTG
CGCAAAGCGCACCAGGAAACCTTCCCTGCCCTCTGCCAGCTGGGCAAATACACTACGAACAACAGCTCAGAACAA
CGTGTCTCTCTGGACATTGACCTCTGGGACAAGTTCAGTGAACCTCCACCAAGTGCATCATTAAAGACTGTGGAG
TTGCCAAGCAGCTGCCCGGCTTCAACACCCTCACCATCGCCGACCAGATCACCTCCTCAAGGCTGCCTGCCTG
GACATCCTGATCCTGCGGATCTGCACGCGGTACACGCCCAGCAGGACACCATGACCTTCTCGGACGGGCTGACC
CTGAACCGGACCCAGATGCACAACGCTGGCTTCGGCCCCCTCACCAGCTGGTCTTTGCCTTCGCCAACAGCTG
CTGCCCTTGAGATGGATGATGCGGAGACGGGGTGCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGAC
CTGGAGCAGCCGGACCGGGTGGACATGCTGCAGGAGCCGCTGCTGGAGGCGCTAAAGGTCTACGTGCGGAAGCGG
AGGCCCAGCCGCCCCACATGTTCCCCAAGATGCTAATGAAGATTACTGACCTGCGAAGCATCAGCGCAAGGGG
GCTGAGCGGGTGATCACGCTGAAGATGGAGATCCCGGGCTCCATCGCGCTCTCATCCAGGAAATGTTGGAGAAC
TCAGAGGGCTTGACACTCTGAGCGGACAGCCGGGGGTGGGGGGCGGGACGGGGTGGCCTGGCCCCCCCCCCA
GGCAGCTGTAGCCCCAGCCTCAGCCCCAGCTCCAACAGAAGCAGCCGGCCACCCACTCCCCGTGACCGCCCCACG
CCACATGGACACAGCCCTCGCCCTCCGCCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGC
CCTGCCCCCACCCTGCCCTCCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGGACTCC
TTGGACAGAGGCTTGGGCCCTCAGTGGACTGCCTGCTCCACAGCCTGGGCTGACGTGAGAGCCGAGGCCAGGA
ACTGAGTGAGGCCCCCTGGTCTGGGTCTCAGGATGGGTCTGGGGGCCTCGTGTTCAATCAAGACACCCCTCTGCC
CAGCTCACCACATCTTCATCACCAGCAAACGCCAGGACTTGGCTCCCCATCCTCAGAACTCACAAGCCATTGCT
CCCCAGCTGGGGAACCTCAACCTCCCCCTGCCTCGGTTGGTGACAGAGGGGTGGGACAGGGGCGGGGGTTCC
CCCTGTACATACCCTGCCATACCAACCCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAAATTTTTTTGTT
TTGATTTTTTTAATAAGAATTTTCATTTTAAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGAGC
TGGATCCAGAGCTGGAGGGGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCCACTCTCCTTTCATGTCC
CTGTGCCCCCAGTTCTCCTCCTCAGCCTTTTCCCTCCTCAGTTTTCTCTTTAAACTGTGAAGTACTAATTTTCC
AAGGCCTGCCTTCCCCTCCCTCCCACTGGAAGAAGCCGCCAGCCCCCTTCTCCCTCTGCCTGACCACTGGGTGTGG
ACGGTGTGGGGCAGCCCTGAAAGGACAGGCTCCTGGCCTTGGCACTTGCCCTGCACCCACCATGAGGCATGGAGCA
GGGCAGAGCAAGGGCCCCGGGACAGAGTTTTCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCA
CATCATCTAGGCTCCCCAGCCCCACTGTGAAGGGGCTGGCCAGGGGCCCCGAGCTGCCCCACCCCCGGCTCAG
CCACCAGCACCCCATAGGGCCCCCAGACACCACACATGCGCGTGGCGACACACACAAACACACACACTGG
ACAGTAGATGGGCCGACACACACTTGGCCCCAGTTTCCCTCCATTTCCCTGGCCTGCCCCCACCCTAACCTGTCC
CACCCCCGTGCCCCCTCCTTACCCCGCAGGACGGGCTACAGGGGGTCTCCCTCACCCTGCACCCCGAGCTG
GGGGAGCTGGCTCTGCCCCGACCTCCTTACCAGGGGTGGGGCCCCCTTCCCTGGAGCCCCGTGGGTGCACCTGT
TACTGTTGGGCTTTCCACTGAGATCTACTGGATAAAGAATAAAGTTCTATTTATTCT

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FIGURE 4821

MASNSSSCPTFGGGHLNGYPVPPYAFFFPMLGGLSPPGALTTLQHQLPVSGYSTPSPATIENTQSSSSEEIVPSP
PSPPLPRIYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMVYTCRDKNCIINKVTRNRCQYCRLOKCFE
VGMSKESVRNDRNKKKKEVPKPECSESYTLTPEVGELIEKVRKAHQETFPALCQLGKYTTNNSSEQRVSLDIDLW
DKFSELSTKCIIKTVEFAKQLPGFTTLTIADQITLLKAACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNA
GFGPLTDLVFAFANQLLPLEMDDAETGLLSAICLICGDRQDLEQPDVRDMLQEPLLEALKVYVRKRRPSRPHMFP
KMLMKITDLRSISAKGAERVITLKMEIPGSMPLIQEMLENSEGLDTLSGQPGGGGRDGGGLAPPPGSCSPSLSP
SSNRSSPATHSP

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FIGURE 4822

GC GCGCGCGGGC **ATG** GCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGGGCGCAGTACGAGA
AGTACAGCTTCCGGGGCTTCCGCCCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCACGCTCTGGAGCAGT
ACGAGGGAGAGAGCTGGCGCGAGAGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGGCTCCTGCGCGACA
GCGAGGGCTTCTGCCACGCCAACTGCAGCGGCCCCGCGCCGCGGCCAAGCCCCGATCCCGACGGCGGCGCGCAG
ACGAGTGGGCCTGCGAGCTGCGGCTCTTCGGCCGCGTCTGGAGCGAGCCGCTGCCTGCGGCGCTGCAAGCGGA
CGCTGCCCCGCTTCCAGGTGCCCTACCCGCGCGGCAGCTGCTGCGTGACTTCCAGAGCCGCTGCCCTACCAGT
ACCTGCACTACGCGCTGTTCAAGGCTAACC GGCTGGAGAAGGCGGTGGCGGCGGCTACACCTTCTCCAGAGGA
ACCCGAAGCAGAGCTGACCGCCAAGTATCTCAACTACTATCAGGGGATGCTGGACGTCGCCGACGAGTCCCTCA
CGGACCTAGAGGCCCAGCCCTACGAGGCCGTGTTCTCCGGGCTGTGAAGCTCTACAACAGCGGGGATTTCGCA
GCAGCAGGAGGACATGGAGCGGGCCTTGTGAGAGTACCTGGCAGTCTTTGCCCGGTGCCTGGCCGGCTGTGAAG
GGGCCCCATGAGCAGGTGGACTTCAAGGACTTCTACCCGGCCATAGCAGATCTCTTGCAGAGTCCCTGCAGTGCA
AGGTGGACTGTGAGGCCAATTGACCCCCAATGTGGGTGGCTACTTCGTGGACAAGTTCGTGGCCACCATTGTACC
ACTACCTGCAGTTTGCCTACTATAAGTTGAATGATGTGCGCCAGGCTGCCCGCAGCGCCGCCAGCTACATGCTCT
TCGACCCCAAGGACAGCGTCATGCAGCAGAACCTGGTGTATTACCGGTTCCACCGGGCTCGCTGGGGCCTGGAAG
AGGAGGACTTCCAGCCCCGGGAGGAGGCCATGCTCTACCACAACCAGACCGCCGAGCTGCGGGAGCTGCTGGAGT
TCACCCACATGTACCTGCAGTCAGATGATGAGATGGAGCTGGAGGAGACAGAACCGCCCTGGAGCCTGAGGATG
CCCTATCTGACGCCGAGTTTGAGGGGGAGGGTGACTACGAGGAGGGCATGTATGCTGACTGGTGGCAGGAGCCGG
ATGCCAAGGGTGACGAGGCCGAGGCTGAGCCAGAGCCTGAAC TCGCAT **TG** AAGGGGACACCCACACCGCTCAA
GCTTGGAAGCCTGGTGCCGATGGCCCCACCTCACCAGCCTGGGCAGCAGCAAGAACTATTTATTA AAAA CTTA
AGATGGGCCAGGTGCGGTGGCTCACACCTGTAATCCAGCATTTTGGGAGGCCAAGGTGGGTGGATCACTTGAGG
CCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAGACCTCCGTCTCTACTAAAATACATAAATTAGCCGGGTGT
GGTGGCAGGCGCCTGAAATCCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAAAGGT
TGCGGTGAACTGAGATTGCGCCACCGCACTCCAGCCTGGGCGACAGAGCGAGACTCCATCTTTAAAAAAAACAA
GACGGGCCGGCAGGTGGCTCACGCCTGTAATCCAGCACTGAGAGGCCGATCACTTGAGGTCAGGAGTTCAAGA
CCTGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATACAAAATTAGCCAGGCATGGTGGCACACACC
TGTAATCGTAGCTGAGGCAGGAGAATCGCCTGAACCCAGGAGCGGAGCTTGCACTGAGCCGAGATCGTGCCACT
GCACTCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAA CTTAAGATGGACACAGCTGA
CTGGACCCCCATCCTGCCTCACCCATGGGTGCTGCACCCAGACCCATCCTGCCACTTCTATGTCTCTGGACCAC
AGGATGGTGGTGGCATTGCAGGTTGGCAAGTGGGCTGATGGGGTCCGCCCTCCTCACTGCTGAGCTCCTCACCTG
GACAGTCTCCTGGACAAGGAGTTTCCAGCTGCTGGCTGGAGTCTCAGGCCAAATTGCAGAGGGTCTCCAGGGTC
CTGAAGAGCACTGGACTAAGAGTCTAGTGGTTCCAGGGCCTGACCAGTAGGTGCTCAATAAATGTTTGTGTTG
AATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 4823

MARVAVGLLWLLLGSAGAQYKYSFRGFPPEDLMPLAAAYGHAEQYEGESWRESARYLEAALRLHRLLRDSEAF
CHANCSPAPAAKPDGGRADWACELRLFGRLERAACLRCKRTLPAFQVPYPPRQLLRDFQSRLPYQYLHY
ALFKANRLEKAVAAAYTFLQRNPKHELTAKYLNYYQGMLDVADESLTDLEAQPYEAVFLRAVKLYNSGDFRSSTE
DMERALSEYLAVFARCLAGCEGAHEQVDFKDFYPAIADLFAESLQCKVDCEANLTPNVGGYFVDKFWATMYHYLQ
FAYYKLNDVRQAARSAASYMLFDPKDSVMQQNLVYYRFHRRWGLEEEDFQPREEAMLYHNQTAELELLEFTHM
YLQSDDEMELEETEPPLEPEDALSDAEFEGEGDYEEGMYADWWQEPDAKGDEAEAEPEPELA

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FIGURE 4824

TCTTTCGCGGGCACTTCGAATTCTAGTCCCCTCCAGGCAGGAGCCCGGGCCGACGGAGAGGACTTAACGACACTA
TCGGACCCCTCTGGGAAAAGAGGGGAGACGTCGTGACCCAGGCCCGCCCCACCTTGCCGCCTCGTGCCCGGCGCT
AAGACCCAGCGGGCGCGCCGCCCGGGGCCCCGGCCCTGTCCCCTTCCGTCCGCGGGGCAGCCAGCTCAGCTC
CGGAGAGCCGGCGGCGCGGGCATGGCTCGGGTGCGTGCGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGG
GCGCAGTACGAGAAGTACAGCTTCCGGGGCTTCCCGCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCAC
GCTCTGGAGCAGTACGAGGGAGAGAGCTGGCGCGAGAGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGG
CTCCTGCGCGACAGCGAGGCCTTCTGCCACGCCAACTGCAGCGGCCCG

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FIGURE 4825

AGCTATGATCGCAACACCTTGGTGGCCATCGTGGTGGGTGTGGGGCGCCTCATCACTGGCATGGACCGAGGCCTC
ATGGGCATGTGTGTCAACGAGCGGCGACGCCCTCATTGTGCCTCCCCACCTGGGGCTATGGGAGCATCGGCCTGGCG
GGGCTCATTCCACCGGATGCCACCTCTACTTCGATGTGGTTCTGCTGGATGTGTGGAACAAGGAAGACACCGTG
CAGGTGAGCACATTGCTGCGCCCGCCCCACTGCCCCCGCATGGTCCAGGACGGCGACTTTGTCCGCTACCACTAC
AATGGCACCTGCTGGACGGCACCTCCTTCGACACCAGCTACAGTAAGGGCGGCACCTTATGACACCTACGTCGGC
TCTGGTTGGCTGATCAAGGGCATGGACCAGGGGCTGCTGGGCATGTGTCTGGAGAGAGAAGGAAGATTATCATC
CCTCCATTCTGGCCTATGGCGAGAAAGGCTATGGGACAGTGATCCCCCACAGGCCTCGCTGGTCTTTCACGTC
CTCCTGATTGACGTGCACAACCCGAAGGACGCTGTCCAGCTAGAGACGCTGGAGCTCCCCCGGCTGTGTCCGC
AGAGCCGGGGCCGGGGACTTCATGCGCTACCACTACAATGGCTCCTTGATGGACGGCACCTCTTCGATTCCAGC
TACTCCCCGAACCACACCTACAATACCTATATCGGGCAGGGTTACATCATCCCCGGGATGGACCAGGGGCTGCAG
GGTGCCTGCATGGGGGAACGCCGGAGAATTACCATCCCCCGCACCTCGCCTATGGGGAGAATGGAAGTGGAGAC
AAGATCCCTGGCTCTGCCGTGCTAATCTTCAACGTCCATGTCAATTGACTTCCACAACCCTGCGGATGTGGTGGAA
ATCAGGACACTGTCCCGGCCATCTGAGACCTGCAATGAGACCACCAAGCTTGGGGACTTTGTTTCGATACCAATTAC
AACTGTTCTTTGCTGGACGGCACCCAGCTGTTACCTCGCATGACTACGGGGCCCCCAGGAGGCGACTCTCGGG
GCCAACAGGTGATCGAAGGCCTGGACACGGGCTGCAGGGCATGTGTGTGGGAGAGAGGCGGCAGCTCATCGTG
CCCCCGCACCTGGCCCACGGGGAGAGTGGAGCCCGGGAGTCCAGGCAGTGCTGTGCTGCTGTTTGAGGTGGAG
CTGGTGTCCCGGGAGGATGGGCTGCCCACAGGCTACCTGTTTGTGTGGCACAAGGACCTCCTGCCAACCTGTTT
GAAGACATGGACCTCAACAAGGATGGCGAGGTCCCTCCGGAGGAGTTCTCCACCTTCATCAAGGCTCAAGTGAGT
GAGGGCAAAGGACGCCTCATGCCTGGGCAGGACCTGAGAAAACCATAGGAGACATGTTCCAGAACCAGGACCGC
AACCAGGACGGCAAGATCACAGTCGACGAGCTCAAGCTGAAGTCAGATGAGGACGAGGAGCGGGTCCACGAGGAG
CTCTGAGGGGCAGGGAGCCTGGCCAGGCCTGAGACACAGAGGCCCACTGCGAGGGGGACAGTGGCGGTGGGACTG
ACCTGCTGACAGTCACCTCCCTCTGCTGGGATGAGGTCCAGGAGCCAACTAAAACAATGGCAGAGGAGACATCT
CTGGTGTTCACCACCCTTAGATGAAAATCCACAGCACAGACCTCTACCGTGTTTCTCTTCCATCCCTAAACCAC
TTCCTTAAATGTTTGGATTGTCAAAGCCAATTTGGGGCCTGTGGAGCCTGGGGTTGGATAGGGCCATGGCTGGT
CCCCACCATACTCCCTCCACATCACTGACACAGCTGAGCTTGTTATCCATCTCCCCAACTTCTCTTTCTT
TGTAATCTTGTATCCCCACTCCCAGCCCTTTTCTCTATGTGACAGCTCCCTAGGACCCCTCTGCCTTCCTC
CCCAATCCTGACTGGCTCCTAGGGAAGGGGAAGGCTCCTGGAGGGCAGCCCTACCTCTCCATGCCCTTTGCCCT
CCTCCCTCGCCTCCAGTGGAGGCTGAGCTGACCTGGGCTGCTGGAGGCCAGACTGGGCTGTAGTTAGCTTTTCA
TCCCTAAAGAAGGCTCCTTTCCCTAAGGAACCATAGAAGAGAGGAAGAAAACAAAGGGCATGTGTGAGGGAAGCT
GCTTGGGTGGGTGTTAGGGCTATGAAATCTTGATTGTTGGGCTGAGGGGTGGGAGGGAGGGCAGAGCTCTGCACA
CTCAAAGGCTAAACTGGTGTGAGTCCTTTTTTCCTTTGTTCCAAATAAAAGATTAAACC

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FIGURE 4826

GGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCGGGGCGCTT
CGAGCCCCCAGCTGGTCACCGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCTCGCGCACCCCGGCC
CGCCTCACACGCGCGCCCCGAGCGAGCCCCGGGTCCCTCGGGCCAGCGTGGCGCAGGGGTCAGTGGTTCTCTC
GGGTCTCGGGACAGGTGAGCACCCCTGATGAAGGCCACGGTCTGATGCGGCAGCCTGGGCGGGTGCAGGAGATCG
TGGGCGCCCTCCGCAAGGGCGGCGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGAGCAGGTTTG
CATATAATGGAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGGAGTGTCTGGA
AAGAGCTCACAGCGCTCCTTCACCACTATTACCCAATTGAGATCGACCCACACCGGACCGTCAAGGAGAAGCTAC
CTCATATGGTGAATGGTGGACCAAAGCACACAATCTCCTATGTCAGCAGAAGATTCAGAAGTTTCAGATAGCCC
AGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACCATAACAACA
TTCCCCTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAGTGTTCACC
CCAACATCCACATCGTGTCTAACTACATGGATTTTAATGAAGATGGTTTTCTCCAGGGATTAAAGGGCCAGCTCA
TACACACATAACAAGAACAGCTCTGCGTGTGAGAACTCTGGTTACTTCCAGCAACTTGAGGGCAAAACCAATG
TCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTCTGGTGTGCAGAACATTCTCAAAA
TTGGCTTCCTGAATGACAAGGTGGAGGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGTGGAGAAGG
ACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGATGCAAGGCC
CCTGAAGGCGCAGGCTCCAGCCCGGCTGCGAGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTGCTCCCCCGT
GAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCTTCCGCGCCCTCCGTCCTCTTTCCCTGAGC
ACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCTGGTGAACCTTGGAC
CACAGCATGTCAGTGCTCTAGGGATTGTCTACTCCAGGGATTTCTTCAAATTTTAAACATGGGAAGTTCAA
CAAATATAATGTGTGAAACAG

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FIGURE 4827A

CCGGATTTCGCGGGTTTCGTCGGGCCTGTGGAAGAAGCGCCGCGCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTCGGCCAAGGCAATTTTCAGAGCAGACGGGCAAAGAATCCTTTACAAGTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCCGTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAAACCTTGGTCTCGTT
GGGGTCAACCTCACTCTGGATGGGGTCAAGTCTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAATTTCTGATCGAGCCCTTCGTCCCCACAGTCAGGCTGAGGAGTTCTATGTCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCTGTCCACCACGAGGGGGGTGTGGACGTGGGTGATGTGGACGCC
AAGGCCCAAGAGCTGCTTGTGGCGTGGATGAGAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCCGAAGACAAGAAAGAAATTTCTGGCCAGTTTTATCTCCGGCCTCTTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCTTGTAGTGACCAAAGATGGAGTCTATGTCTTGACTTGGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCCTCCCCCTTCGGGCGGGAGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCAAA
GGGAGGATCTGGACCATGGTGGCCGGGGTGGCGCCTCTGTCTGTACAGCGATACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAATATGGGGAGTACTCAGGCGCCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCCTCTCCCTCATGACCCGAGAGAAGCACCAGATGGCAAGATCCTCATCATTGGAGGCAGCATCGCAAACCTTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGGAAGACC
ACTGGGATCCCCATCCATGCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCCTGGGCCACCGG
CCCATCCCCAACAGCCACCCACAGCGGCCACACTGCAAACCTCCTCCTCAACGCCAGCGGGAGCACATCGACG
CCAGCCCCCAGCAGGACAGCATCTTTTTCTGAGTCCAGGGCCGATGAGGTGGCGCCTGCAAAGAAGGCCAAGCCT
GCCATGCCACAAGATTTCAGTCCCAAGTCCAAGATCCCTGCAAGGAAAGAGCACCACCTCTTCAGCCGCCACACC
AAGGCCATTGTGTGGGGCATGCAGACCCGGGCGGTGCAAGGCATGCTGGACTTTGACTATGTCTGCTCCCGAGAC
GAGCCCTCAGTGGCTGCCATGGTCTACCTTTTACTGGGGACCACAAGCAGAAGTTTTACTGGGGGCACAAAGAG
ATCCTGATCCCTGTCTTCAAGAACATGGCTGATGCCATGAGGAAGCATCCGGAGGTAGATGTGCTCATCAACTTT
GCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACTATGCCCAGATCCGACCATCGCCATCATA
GCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGGCGGACCAGAAGGGAGTGACCATCATCGGA
CCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACACAGGTGGGATGCTGGACAACATCCTG
GCCTCAAACGTGATCCGCCAGGCAGCGTGGCCTATGTCTCACGTTCCGGAGGCATGTCCAACGAGCTCAACAAT
ATCATCTCTCGGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGTTGGGGACAGGTACCCGGGCTCCACATTC
ATGGATCATGTGTTACGCTATCAGGACACTCCAGGAGTCAAAATGATTGTGGTTCTTGGAGAGATTGGGGGCACT
GAGGAATATAAGATTTGCCGGGGCATCAAGGAGGGCGCCTCACTAAGCCCATCGTCTGCTGGTGCATCGGGACG
TGTGCCACCATGTTCTCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACCAGGCTTCTGAAACTGCA
GTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGAGTGTGTTGTGCCCGGAGCTTTGATGAGCTTGGAGAGATCATC
CAGTCTGTATACGAAGATCTCGTGGCCAATGGAGTCATTGTACCTGCCAGGAGGTGCCGCCCCCAACCGTGCCC
ATGGACTACTCCTGGGCCAGGGAGCTTGGTTTGATCCGCAAACCTGCCTCGTTCATGACCAGCATCTGCGATGAG
CGAGGACAGGAGCTCATCTACGCGGGCATGCCCATCACTGAGGTCTTCAAGGAAGAGATGGGCATTGGCGGGGTC
CTCGGCCTCCTCTGTTTCCAGAAAAGTTGCCTAAGTACTCTTGCCAGTTCATTGAGATGTGTCTGATGGTGACA
GCTGATCACGGGCCAGCCGTCTCTGGAGCCCACAACACCATCATTTGTGCGCGAGCTGGGAAAGACCTGGTCTCC
AGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTTGGGGGTGCCTTGGATGCAGCAGCCAAGATGTTTCAGT
AAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAGCTGATCATGGGC
ATTGGTCACCGAGTGAAGTCGATAAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTACGTCAGGCAGCAC
TTCCCTGCCACTCCTCTGCTCGATTATGCACTGGAAGTAGAGAAGATTACCACCTCGAAGAAGCCAAATCTTATC
CTGAATGTAGATGGTCTCATCGGAGTCGCATTTGTAGACATGCTTAGAACTGTGGGTCTTTACTCGGGAGGAA
GCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGGTTTATTGGACAC
TATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGTATCGTCATCCGTGGGATGATATTTTATATGTTCTTCCGGAA
CACATGAGCATGTAACAGAGCCAGGAACCCCTACTGCAGTAAACTGAAGACAAGATCTCTTCCCCCAAGAAAAAGT
GTACAGACAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCTGGAATGTAAACAGCCACTGGGGTACAGGCA
CCGAAGACCAACATCCACAGGCTAACACCCCTTCAGTCCACACAAAGAAGCTTCATATTTTTTTTATAAGCATAG

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FIGURE 4827B

AAATAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAGCATCTAAGTAC
TGTCAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTCCATTAGTTAAACATTTTTC
TCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATAACATTTAAAGCACCCCAATGTCTCTCTTT
TTTTTTTTTTTACTTCCCTTTCTTCTCCTTATATAACATGAAGAACATTGTATTAATCTGATTTTTTAAAGATCTT
TTTGTATGTTACGTGTTAAGGGCTTGTTTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCAGAGTCTGTTTAT
GTCAGGGGGATGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACTTAATATGTAAAGTT
GTAACATACATACATTTAAAATGGAAATGCAGAAAGCTGTGAAATGTTCTGTGTCTTATGTTCTCTGTATTATG
CAGCTGATTTGTCTGTCTGTAAGTGAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTGTAATCCACAAAG
ATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTATATAGTAACA

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FIGURE 4828

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLGVLGVN
LTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAEFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQ
KLLVGVDEKLNPEIDIKHLLVHAPEDKKEILASFISGLNFYEDLYFTYLEINPLVVTKDGVYVLDLAAKVDATA
DYICKVKWGDIEFPPPF GREAYPEEAYIADLDAKSGASLKLTLNPKGRIWTMVAGGGASVVYSDTICDLGGVNE
LANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILIIGGSIANFTNVAATFKGIVRAIRDYQGPLKEHEVTI
FVRRGGPNYQEGLRVMGEVGKTTGPIHVFGTETHMTAIVGMALGHRP IPNQPTAAHTANFLLNASGSTSTPAP
SRTASFSESRADEVAPAKKAKPAMPQDSVPSRSLQGKSTTLFSRHTKAIVWGMQTRAVQGMLDFDYVCSRDEPS
VAAMVYPFTGDHKQKFYWGHKEILIPVFKNMADAMRKHPEVDVLINFASLRSAYDSTMETMNYAQIRTIAIIAEG
IPEALTRKLIKKADQKGVTTIGPATVGGIKPGCFKIGNTGMLDNILASKLYRPGSVAYVSRSGGMSNELNNIIS
RTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKICRGIKEGRLSTPVVCWIGTCAT
MFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEIIQSVYEDLVANGVIVPAQEVPPPTVPM DY
SWARELGLIRKPASFMTSICDERGQELIYAGMPITEVFKEEMGIGGVLGLLWFQKRLPKYSCQFIEMCLMVTADH
GPAVSGAHNTIICARAGKDLVSSLTSGLLTIGDRFXGCLGCSQDVQ

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FIGURE 4829

GGCTGAGGGGAGGGCCGTTGGCCGGGGCCTGCGGTACGCCGCTTCAGTGAGGGACGCCACTGCGGCCACCCGGCT
TGCTGCCTTCCTGGGCGCCACTCCCCAGGCGACCCGACGCGACGCGCCAGCAGCGCAGCACCATTCTCTCGG
GCTCTTGGGCGCTGCTCTGAGCAGCGTCACCCTTTACACCAGAAAAGCTGGCGGGCACTATGGGGAAAAAACAAA
CAAGAAGAAAAGTGGAGGAGGTGCTAGAAGAGGAGGAAGAGGAATATGTGGTGGAAAAAGTTCTCGACCGTCGAGT
GGTAAAGGGCAAAGTGGAGTACCTCCTAAAGTGAAGGGATTCTCAGATGAGGACAACACATGGGAGCCAGAAGA
GAACCTGGATTGCCCCGACCTCATTGCTGAGTTTCTGCAGTCACAGAAAACAGCACATGAGACAGATAAATCAGA
GGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATAAGGGAGAGGAGAGCAAACCAAAGAAGAAGAAAGAAGA
GTCAGAAAAGCCACGAGGCTTTGCTCGAGGTTTGGAGCCGGAGCGGATTATTGGAGCTACAGACTCCAGTGGAGA
GCTCAIGTTCTGATGAAATGGAAAACTCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGTCAAGTG
CCCACAGGTTGTCTATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCTCGGAGGATGATGACAAAA
AGATGACAAGAACTAACGCTCCTGAGTACCAGCCCTGTACATCTGACTGTGGGTTTCAAGTGGGAAGGGAAGG
AGTTCTACTTGTCTTGACACCATAGAGGTGGCTTGAGAAGATGTCCTTTGAAGAGCCAGTATAGTTTCTGTGCC
TGCAGCAGCCCAAGTGCTTTAAAGCCGTTTCAAGCTGTATAGTTTGCACACCCATCCAGTGGAGGGGAAAGGGG
ATAAGTGTTCGAAGCAACCTTTTCTGCACTTTGTGCGAAAAGCAAAGGGCCTTCTATGAAGGACAAAACCTTGC
AGAATTGGGTGTGTGGGAGAGCAAAAAATACTGTAGATCTTCAAAGAGCATCTCCACAACCCACAGCCTTCTTC
CCAATAGTGTAACTCTGCATTTTTACAGCGTAGCATGTGTAGTTTTTGGCTATTACTGGTGTATTATTGGG
GGAGGGAGGGATGGGGAGGGGAGAAAGGGAGATGGGTAGCATCATTTTGATTAAACATTTGGGGCTGATAGGGGA
AATGGTGAAGCAATGGAAGAAGACAGACAATAATGATTGCTTCTATGTCCAGAATATTTTACCTTTAAAAAAA
TGTCATTGGCACCATAAATAAGGACTGTGAGAGACTGTTTAAAGCTGTGAAAGTCTGAAACCTATAAGCCAAGG
TGTTCCCTGCCTAACTTATTGCTGTTCCACAAAGGACTAAGCCTGTTTATAAGTTACCAAAGTTGCCATTTTG
GAGATGGAAATTGACGAGGAGGGAAGGTCTTTTATTGGAGAGTATACAGTACAAGCAGATCATTCTGCCTTAGAG
GTGCTAATTCCCGAAATTAGAAGACCCTTTCTTTTCCAGTAACGAAGTTATAAATATCAGCTTGTTTCATCCAAGC
CACTGGCTGAGGTGTTAGGAAGAGGAAGAGGGTGGTAGAGGAGGTAAGACAGTAGGGAAAGACAAGGGCCCATGC
TCTTAGTGGGAAAACCTCTGGAGCCGTTTACTTTGAGCTTTGAACACTGAAACCATTGTTGGCAGGGTTTCAGTC
ACTGACAGCACAAGTTTCACTGAATTGATCCAAGAGTTTAGTGATTTCAAAGCCTTGGTCTCAGGAGAAGATTA
AACTTTTCATATTGGGCAGTGGTTCACTTTAAACACACACATACACACAAAACAATTTTTTAAGAAATCCTAA
TAAGTAACATAACCAAAATGCTCTGTCTTGAGTCATGAGAACCATCAGTTCTTGATATTGTCTAGACTTGCATCT
AGAGCTACGTTGTAAAATCTTTTAGGCATGTGTTAGATTTCTGTGTAACTTTGTTTAAATGTAAACTTCATAC
TACATTGTCAGTTTTTGTCTTAATAAACTATAGATTTAT

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FIGURE 4830

CTGAAGCGGAAGTGGAGGAAAAGATGGAGGACCATCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGA
TTGGCTGGTGGACAGAAGGCACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGC
TGCCATCCAGGACATGCCAGAGAGCGAAGAGATCGCCACGTGCTGTCTGGGTCTACATTACTACTTTTCACTG
CCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTCCACGAAGAATATTTTTGGCCGATACTCTTCACAGCG
GATGAAGGATTGGCAGGAGATTATAGCTCTGTATGAGAAGGACAACACCTACTTAGGTAAAGTGGCCCGCCTGG
GAGCCCTGGTATCCATGGGGAAGCCCACTCTCAGAGTTCTGAGATACCAGGCTTATAGGAGGCACAGTCTGTGAG
TGGGAAGAGACTGGAGTGTAGATGTTGCCCATTTGTAGGTGGTAAATCAATTGTTTTTGTGGAATTGATTTTC
CCTGAGTGGAGTGTCTGGGGAAGGAGGAGTCCAGGCCGCTAGTGGCCATTGCGCGTGCCTCAGCGAGCAGGTGT
GTGTGGTCTCTCCACCACTCACCTCTTGTTAGCGGGAGTGTGCTGCCCCACCCCCACCCCCGACCCCCATT
TACACAAGGCAGAAGAGGCACGGGTTTTCTGGGAGCGAATATCAAGTGCCTGAGAGCAACTACAGGACTAAGT
TGTTTTGGTGGTGTAGTATAAATAATAATGGCTAATATTTCTGAGCATCTACTAAATGCAAGGAATTGT
GCTTGGTGTGTATGTGGATTCTCTCTTCATGATAAATGTTATTGTCGCTGTTTTACCGATGAGGGTT
GGATTAGAGGGTTAAACAACCTTGTCTTAGGCTCCACAGCTGGGAACAAGTGGGGCTGGGAAGCTGACTTCGTGC
TCTTACCACCACAAAGGATGTTGTGTGCATCTGGGGCATGCTGCCTCATGTGGGGTGTCTGGGCTGAATTT
CCTGGGCATTCTCAGTGGAACTCTCTAGCCTCCTGGTTGGAATGTCAACTATGAGATCCCTCACTGAAGAAG
CAGATTGCCAAGTGCCAGCAGCTGCAGCAAGAATACAGCCGAAGGAGGAGGTGCCAGGCAGGGGCTGCCGAG
ATGCGGGAGCAGTTCTACCACTCCTGCAAGCAGTATGGCATCACGGGCGAAAATGTCCGAGGAGAAGTGTGGCC
CTGGTGAAGGACCTGCCGAGTCACTGGCTGAGATTGGGGCAGCGGCTCAGCAGTCCCTGGGGGAAGCCATTGAC
GTGTACCAGGCGTCTGTGGGGTTTGTGTGTGAGAGCCCCACAGAGCAGGTGTTGCCAATGTGCGGTTTCGTGCAG
AAGCGGGGAACTCAACGGTGTACGAGTGGAGGACAGGGACAGAGCCCTCTGTGGTGAACGACCCACCTCGAG
GAGCTTCTGAGCAGGTGGCAGAAGATGCGATTGACTGGGGCGACTTTGGGGTAGAGGCAGTGTCTGAGGGGACT
GACTCTGGCATCTCTGCCGAGGCTGTGGAATCGACTGGGGCATCTTCCCGAATCAGATTCAAAGGATCCTGGA
GGTGTATGGGATAGACTGGGGAGACGATGCTGTTGCTTTGCAGATCACAGTGTGGAAGCAGGAACCCAGGCTCCA
GAAGGTGTTGCCAGGGGCCAGATGCCCTGACACTGCTTGAATACACTGAGACCCGGAATCAGTTCCTTGATGAG
CTCATGGAGCTTGAGATCTTCTTAGCCAGAGAGCAGTGGAGTTGAGTGAGGAGGCAGATGTCTGTCTGTGAGC
CAGTTCAGCTGGCTCCAGCCATCCTGCAGGGCCAGACCAAGAGAAGATGGTTACCATGGTGTGAGTGTGGAG
GATCTGATTGGCAAGCTTACCAGTCTTCAGCTGCAACACCTGTTTATGATCCTGGCCTACCAAGGTATGTGGAC
CGAGTGACTGAATTCCTCCAGCAAAAGCTGAAGCAGTCCCAGCTGCTGGCTTTGAAGAAAGAGCTGATGGTGCAG
AAGCAGCAGGAGGCACTTGAGGAGCAGGCGGCTCTGGAGCCTAAGCTGGACCTGCTACTGGAGAAGACCAAGGAG
CTGCAGAAGCTGATTGAAGCTGACATCTCAAGAGGTACAGCGGGCGCCCTGTGAACCTGATGGGAACCTCTCTG
TGACACCCTCCGTGTTCTTGCTGCCATCTTCTCCGCTTTGGGATGAAGATGATAGCCAGGGCTGTTGTTTTG
GGGCTTTCAAGGCAAAAGACCAGGCTGACTGGAAGATGGAAGCCACAGGAAGGAAGCGGCACCTGATGGTGTAT
CTTGGCACTCTCCATGTTCTCTACAAGAAGCTGTGGTGTATGGCCCTGTGGTCTACCAGGCGAAAACCACAGATT
CTCCTTCTAGTTAGTATAGCGGACTTAATAAAAGAGGAAAAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 4831

MCVHPGACLPHVGVSWAEFPGHFSVELSSLLVRNVNVEIPSLKKQIAKCQQLQQEYSRKEEECQAGAAEMREQFY
HSCCKQYGITGENVRGELLALVKDLPSQLAEIGAAAQQSLGEAIDVYQASVGFVCESPTQVLPMLRFVQKRGNST
VYEWRTGTETPSVVERPHLEELPEQVAEDAIDWGDGFGVEAVSEGTDSGISAEAGIDWGIFPESDSKDPGGDGIDW
GDDAVALQITVLEAGTQAPQVARGPDALTLLLEYTTETRNQFLDELMELEIFLAQRAVELSEEADVLSVSQFQLAP
AILQGQTKEKMTVMVSVLEDLIGKLTSLQLQHLMILASPRYVDRVTEFLQQKLKQSLLALKKELMVQKQQEAL
EEQAALPKLDLLEKTKELQKLEADISKRYSGRPVNLMTSL

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FIGURE 4832

GAAGAGGGTCGGGTATCTGGGCATGCGCAGGGCCGCGAGGACTCTTGGTGGGGTAGCGAGGGGGACGGTCCCACGA
CTGCTCCGAAGGGCCGGGACTCCCAGTGGGGGCGGGACCCCCGGAGTGCCCGCCTGCGGACTCCCAAGCCTGGAG
CCTGGGGAGAGGGTGGGCACCTCCGTTCCCGCACACCCGTCCATGGTGTGTGCGCCGAGCGTCCAGGAGCCACGG
CGGTGTCTTCTTTCGCGCTCTTTTACACGTGTGGGGGTAGGCTGCTCCTCGGGGCTGAGCCGTGGCCAGGGTTAT
GGAGAGGCCCCGCTCTCCCCAGATGGCGTCGTGAGCCCTGACTCCCCATGTTCTGCGACTGCTTTGTCTCCGT
GCCCCGGCCTCAGCCATCCCGGCTGTGATCTTTGCCAAGAACTCGGACCGACCCCGGGACGAGGTGCAGGAGGT
GGTGTGTTGTCCCCGAGGCACTCACACTCCTGGGAGCCGGCTCCAGTGCACCTACATTGAAGTGAACAGGTGTC
GAAGACGCACGCTGIGATTCTGAGCCGTCTTCTTGGCTATGGGGGGCTGAGATGGGCGCCAACGAGCATGGTGT
CTGCATTGGCAACGAGGCTGTGTGGACGAAGGAGCCAGTTGGGGAGGGGGAAGCCCTGCTGGGCATGGACCTACT
CAGGCTGGCTTTTGAACGAGCAGCTCTGCCCAGGAGGCCTTGATGTGATCACAGGGTTACTGGAGCACTATGG
GCAGGGGGGCAACTGCCTGGAGGATGCTGCGCCATTCTCCTACCATAGCACCTTCTCTGCTGGCTGACCGCACTGA
GGCGTGGGTGCTGGAGACAGCTGGGAGGCTCTGGGCTGCACAGAGGATCCAGGAGGGGGCCCGCAACATCTCCAA
CCAGCTGAGCATTGGCACGGACATCTCGGCCCAACACCCGGAGCTGCGGACTCATGCCCAGGCCAAGGGCTGGTG
GGATGGGCAGGGTGCCTTTGACTTTGCTCAGATCTTCTCCTGACCCAGCAGCCTGTGCGCATGGAGGCTGCCAA
GGCCCGCTTCAGGCAGGGCGGGAGCTGCTGCGGCAACGGCAAGGGGGCATCACGGCAGAGGTGATGATGGGCAT
CCTCAGAGACAAGGAGAGTGGTATCTGTATGGAAGTGGGAGGCTTTTCGCACCACGGCCAGCATGGTGTCTGTCT
GCCCCAGGATCCACGCAGCCCTGCGTGCACTTTCTTACCGCCACGCCAGACCCATCCAGGTCTGTGTTCAAACC
TTTCATCTTCGGGATGGGGGTGGCCAGGCCCCCAGGTGCTGTCCCCCACTTTTGAGGCACAAGACCTGTTCG
GACCTGCCCCGATTCCAGACTCAGGTAGATCGTCGGCATAACCTCTACCGTGGACACCAGGCAGCCCTGGGGCT
GATGGAGAGAGATCAGGATCGGGGCGAGCAGCTCCAGCAGAAACAGCAGGATCTGGAGCAGGAAGGCCTCGAGGC
CACACAGGGGCTGCTGGCCGGCGAGTGGGCCCCACCCCTCTGGGAGCTGGGCAGCCTCTTCCAGGCCTTCGTGAA
GAGGGAGAGCCAGGCTTATGCGTAAGCTTCATAGCTTCTGCTGGCCTGGGGTGGACCCAGGACCCCTGGGGCCTG
GGTGCCCTGAGTGGTGGTAAAGTGGAGCAATCCCTTCACGCTCCTTGGCCATGTTCTGAGCGGCCAGCTTGGCCT
TTGCCTTAATAAATGTGCTTTATTTTC

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FIGURE 4833

MASSSPDSPCSCDCFVSVPPASAIPAVIFAKNSDRPRDEVQEVVFPAGTHTPGSRLQCTYIEVEQVSKTHAVIL
SRPSWLWGAEMGANEHGVCIGNEAVWTKEPVGEALLGMDLLRLALERSSSAQEALHVITGLLEHYGQGGNCLE
DAAPFSYHSTFLLADRTEAWVLETAGRLWAAQRIQEGARNISNQLSIGTDISAQHPELRTHAQAKGWWDGQGAFD
FAQIFSLTQQPVRMEAAKARFQAGRELLRQRQGGITAEVMMGILRDKESGICMDSGGFRTTASMVSVLPQDPTQP
CVHFLTATPDPSRSVFKPFIFGMGVAQAPQVLSPTFGAQDPVRTLPRFQTQVDRRHTLYRGHQAALGLMERDQDR
GQQLQKQKQDLEQEGLEATQGLLAGEWAPPLWELGSLFQAFVKRESQAYA

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FIGURE 4834

TCTCCCTCCGCTCCCGAGCACCAGCGGCTCTGAGCTGCCCCAGGGTCCCTCCCCCGCGCCAGCAGCCCATT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGT
TGTGGTGACCCCGCCCCCACCACCCCTCCCTTCCACCCGACCCCCAACCCCATCCCCAGTTCGAGCCGCC
GCCCCGAAAGCGCGGCGCTCGTCTTAGGAGGAGTCGCGCGCGGCCACCTCCGCCATGGAGCTGATCACCATT
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGCGGCGCTGGAGA
ACCTGCCCACCTTTCCTTGTGGAAGTGTCCAGAGTGTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAAGTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAAGTATGTTTTGCAGACATTGGGTACAGAACTTACCGGCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCAGTAAACCAGTGGCCAGAAGTCAATTCCTC
AGCTGGTGGCAATGTACAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAG
CAAAGTTTGATAAAGAGTCTGAAAGGCACCTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAGTGACATTGATGAGGTGGCTTTACAAGGATAGAAT
TCTGGTCCAAATGTCTGTGATGAGGAAATGGATTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAACTA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCACATGTCTCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGTGGCTTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCAGTGTAGTTGTTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCTGCTACAGTGTCTGA
TTGAGGTCTCAGTGTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCGCATATGAATCTC
TGATGGAAATTTGTGAAAACAGTGCCAAGGATTGTTATCTGTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAGTGTGGGTGGTGAATCCTCAAGTACATGGAGGCCTTTAAACCTTCTGGGCATTG
GATTAAAAAATTATGCTGAATACCAGGTTTGTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAATTTGGGAATGAGAACGTCCACA
GGTCTGTGAAGCCGCAGATTCTGTGAGTGTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGGAAACCTATACTGGAATCGTCCAGGGATTAAAGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCTTGCTACATGGGCAACAAAAGAACTGAGGAACTGAAGAACAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCACTGGAATCTCCCATCTTTGAAAAACCTGGAAGTGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAAAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCCAACAGCAGCGCTGTTAGTGAGCTAAGTAAAGCACTGACTTCGTAGAAAACCATAAATCGGC
CATCTTGGAAGAGAGAAAAACAATGGAGTTACTTATTTAAAAAATAAAAAAAAAA

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FIGURE 4835

MELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWL AIDANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAI IQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLLTKQDENDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEEA YEADVADDQEEPATYCLSSSFELIVQKLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHQDA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLA AVGLVG
DLCRALQSNIIPFCDEVMQLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDV LKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 4836

CCCTCCCCCTCCGCCCCCTTCCCCGTAGGCAGCCCGCCCGCCAGTCCGCCCCGCACCGCCTCCTTCCCAGCCCCCTAG
CGCTCCGGCTGGGTCTCTCCCCGCCCCCCAGGCTCCCCCGGTCTGCTCTCTCCGCGGGTCGCCCCGCGCTCGGTG
GATGTGGCTGGCAGCTGCCGCCCCCTCCCTCGCTCGCCGCTGCTCTTCTCCGCCCCCTCCGCTCTCTCCCCCTCT
CCTTCTCGTCTTTCAGCCGCTCCTCTCGCCGCGCCTCCACAGCCTGGGCTCGCCGCGATGCCGGAGAAGAGGCC
CTTCGAGCGGCTGCCGTGCCGATGTCTCCCCATCAACTACAGCCTTTGCCTCAAGCCCGACTTGCTGGACTTCAC
CTTCGAGGGCAAGCTGGAGGCCCGCCCGCCAGGTGAGGCAGGCGACTAATCAGATTGTGATGAATTGTGCTGATAT
TGATATTATTACAGCTTCATATGCACCAGAAGGAGATGAAGAAATACATGTACAGGATTTAACTATCAGAATGA
AGATGAAAAAGTCACCTTGTCTTTCCCTAGTACTCTGCAAACAGGTACGGGAACCTTAAAGATAGATTTTGTGG
AGAGCTGAATGACAAAATGAAAGGTTTCTATAGAAGTAAATATACTACCCCTTCTGGAGAGGTGCGCTATGCTGC
TGTAACACAGTTTGAGGCTACTGATGCCCCGAAGGGCTTTTCCCTTGCTGGGATGAGCCTGCTATCAAAGCAACTTT
TGATATCTCATTGGTTGTTCCCTAAAGACAGAGTAGCTTTATCAAACATGAATGTAATTGACCGGAAACCATACCC
TGATGATGAAAATTTAGTGAAGTGAAGTTTGGCCGCACACCTGTTATGTCTACATATCTGGTGGCATTGTGTTGT
GGGTGAATATGACTTTGTAGAAACAAGGTCAAAGATGGTGTGTGTGTCGGTGTTTACACTCCTGTTGGCAAAGC
AGAGCAAGGAAAATTTGCGTTAGAGGTTGCTGCTAAAACCTTGCCCTTTTATAAGGACTACTTCAATGTTCCCTTA
TCCTCTACCTAAAATTGATCTCATTGCTATTGCAGACTTTGCAGCTGGTGCCATGGAGAACTGGGGCCTTGTTAC
TTATAGGGAGACTGCATTGCTTATTGATCCAAAAAATTCCTGTTCTTCAFCCCGCCAGTGGGTTGCTCTGGTTGT
GGGACATGAACTCGCCCATCAATGGTTTGGAAATCTTGTTACTATGGAATGGTGGACTCATCTTTGGTTAAATGA
AGGTTTTGCATCCTGGATTGAATACTGTGTGTAGACCACTGCTTCCCAGAGTATGATATTTGGACTCAGTTTGT
TTCTGCTGATTACCCCGTGCCAGGAGCTTGACGCCTTAGATAACAGCCATCCTATTGAAGTCAGTGTGGGCCA
TCCATCTGAGGTTGATGAGATATTTGATGCTATATCATATAGCAAAGGTGCATCTGTCTATCCGAATGCTGCATGA
CTACATTGGGGATAAGGACTTTAAGAAAGGAATGAACATGTATTTAACCAGTTCCAACAAAAGAATGCTGCCAC
AGGTAATCTCTTAATAGCTTGAGATAGAAATGGAGAGAAAGTATTGTCACTCTATCCAGGCTGGGACATTTTATTT
TTGTTCTGAATACTTAAGGTCAGGATCCATGTAATAAATAAATTAGCCTTATTTG

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FIGURE 4837

MWLAAAAPSLARRLLFLGPPPPPLLLLVSRRSSRRRLHSLGLAAMPEKRPFERLPADVSPINCSLCLKPDLLDFT
FEGKLEAAAQVRQATNQIVMNCADIDIITASYAPEGDEEIHATGFNYQNEDEKVTLSPSTLQTGTGLKIDFVG
ELNDKMKGFYRSKYTTSPGEVRYAAVTQFEATDARRAFPCWDERAIKATFDISLVVPKDRVALSNMNVIDRKPYP
DDENLVEVKFARTPVTSTYLVAFVVGEYDFVETRSDGVCVCVYTPVGKAEQKFALEVAAKTLPFYKDYFNVPY
PLPKIDLIAIADFAAGAMENWDLVTYRETALLIDPKNSCSSSRQWVALVVGHELHQWFGNLVTMEWWTHLRLNE
GFASWIEYLCVDHCFPEYDIWTQFVSADYTRAQELDALDNSHPIEVSVGHPSEVDEIFDAISYSGASVIRMLHD
YIGDKDFKKGMNMYLTKFQQKNAAGNL

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FIGURE 4838

CGCCCCGGGCAGGTCTCCCGGAAGTGGCCGGTCCAGAGCTGTGGGGTGCCCTCCGCGCGGTCTCTGGCGGATCGGGG
AATCGGATCAAGGCGAGAGGATCCGGCAGGGAAGGAGCTTCGGGGCCGGGGTTGGGCCGCACATTTACGTGCGC
GAAGCGGAGTGGACCGGGAGCTGGTGACGATGCGGGGCCGAGCCCCCTGGCGCTGCAACTGGAACAGTTGTTGA
ACCCGCGACCAAGCGAGGCGGACCCTGAAGCGGACCCCGAGGAAGCCACTGCTGCCAGGGTGATTGACAGGTTTG
ATGAAGGGGAAGATGGGGAAGGTGATTTCTAGTAGTGGGTAGCATTAGAAAACCTGGCATCAGCCTCCCTCTTG
ACACGGACAAAAGGTATTGCGGCAAAACCACCTCTAGAAAAGCATGGAATGAAGACCATTGGGAGCAGACTCTGC
CAGGATCGTCTGATGAGGAAATATCTGATGAGGAAGGGTCTGGAGATGAAGATTGAGAGGGACTGGGTCTGGAGG
AATATGATGAGGACGACCTGGGTGCTGCTGAGGAACAGGAGTGTGGTGATCACAGGGAGAGCAAGAAGAGCAGAA
GCCACTCTGCAAAAACACCGGGCTTCAGTGTCCAGAGTATCAGTGACTTTGAGAAAATTTACCAAGGGAATGGATG
ACCTTGGGAGCAGTGAGGAGGAGGAAGACGAAGAGAGTGGCATGGAAGAAGGGGATGACGCGGAAGACTCCCAAG
GCGAGAGTGAGGAAGACAGGGCTGGAGATAGAAAACAGTGAGGATGATGGTGTGGTGATGACCTTCTCTAGTGTCA
AAGTTTCTGAGGAAGTGGAGAAAAGGAAGAGCCGTGAAGAACCAGATAGCACTGTGGGACCAGCTCTTGGAAGGAA
GGATCAAACTACAAAAGCTCTGTTGACCACCAACCAGCTTCTCAACCAGATGTTTTCCATTGTTCAAGGACA
AAGGTGGCCCAAGATTTTCCAGTGCCCTGAAAAATAGTCACAAGGCACTTAAAGCATTGTTGAGGTGATTGGTAG
GTCTTCAGGAAGAGTTGCTTTTCCAGTACCCAGACACTAGATATCTAGTAGATGGGACAAAGCCCAATGCGGGAA
GTGAGGAGATTTCTAGTGAAGATGATGAGCTGGTAGAAGAGAAGAAGCAGCAACGAAGAAGGGTCCCTGCAAAGA
GGAAGCTGGAGATGGAGGACTATCCAGCTTCATGGCAAGCGCTTTGCCGACTTTACAGTCTACAGGAACCGCA
CACTTCAGAAATGGCACGATAAGACCAAACCTGGCTTCTGGA AAACTGGGGAAGGGTTTTGGTGCCCTTTGAACGCT
CAATCTTGACTCAGATCGACCATATTCTGATGGACAAAGAGAGATTACTTCAAGGACACAGACCAAGCGCTCTG
TCTATCGAGTTCTTGGCAAACCTGAGCCAGCAGCTCAGCCTGTCCCAGAGAGTTTGCCAGGGGAACCGGAGATCC
TTCTCAAGCCCCTGCTAATGCTCATCTGAAGGACTTGATGAAGAAATCTTTGATGATGATGACTTTTACCACC
AGCTCCTTCGAGAACTCATAGAACGGAAGACCAGCTCCTTGGATCCCAACGATCAGGTGGCCATGGGAAGGCAGT
GGCTTGCAATCCAGAAGTTACGAAGCAAAATCCACAAAAAAGTAGATAGGAAAGCCAGCAAAGGCAGGAAACTTC
GGTTTCATGTCTTAGCAAGCTACTGAGTTTCATGGCACCTATTGACCATACTACAATGAATGATGATGCCAGGA
CAGAACTGTACCGCTCTCTTTTTGGCCAGCTCCACCCTCCCGACGAAGGCCACGGGGATTGACATCGCCACCTC
CGACACCCAGTGGGCGCCTTGGCTGGTGCGGCTGCTGGTCCAGATGGAGGAAACCAGTGACTTTATGGGGCTGAG
CTAGTAGGGAAGCCCCTGGAAAGATGCTGCGTTCCGAACCTGTGCCTAATACACGCAAGGGCGCTGTCCCGCCA
ACCCCGCCTTTAAACGCCACAAATAAAGAGCATTGTTACCGCCAAAAA

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FIGURE 4839

MAGPQPLALQLEQLLNPRPSEADPEADPEEATAARVIDRFDEGEDGEGDFLVVGSIRKCLASASLLDTRKRYCGKT
TSRKAWNEDHWEQTLPGSSDEEISDEEGSGDEDSEGLGLEEYDEDDLGAEEQECGDHRESKKSRSHTSAKTPGFS
VQSISDFEKFTKGMDLGSSEEEDEESGMEEGDDAEDSQGESEEDRAGDRNSEDDGVVMTFSSVKVSEEEVEKGR
AVKNQIALWDQLLEGRIKLQKALLTTNQLPQPDVFPFLFKDKGGPEFSSALKNSHKALKALLRSLVGLQEELLFQY
PDTRYLVDTGTPNAGSEEEISSEDELVEEKKQRRRVPAKRKLEMEDYPSFMAKRFADFTVYRNRTLQKWHDKTK
LASGKLGKGFAGAFERSILTQIDHILMDKERLLRRTQTKRSVYRVLGKPEPAAQVPESLPGEPEILPQAPANAH
KDLDEEIFDDDDFYHQLLRELIERTSSLDPNQVAMGRQWLAIQKLRSKIHKKVDRKASKGRKLRFHVLSKLLS
FMAPIDHTTMNDARTELYRSLFGQLHPPDEGHGD

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FIGURE 4840

CTTCCCGCCGCTGACCTGGCCCGCCGCTTTCCAGTCTGGCCGGGCGGGCCCTGAAGCACGGCGCTCGGGCGT
GGGACCGTGTTACACCCCTTTCCAGAAATTCCTGGCTGGTAACCGCGAAACCGACTGGAGCAGGAGCTGGGAGAA
CTGGAGAAAACCTGCTCTAATCTCACTTGACTCCAGCTAGGAGCTGATGCTGCATCGTAATAACATTTGCAGAGCG
CTTTCACAGGCGCTGGAGTGACTTGTCTGAGATTCTCCAGAACTGAGCCCTTTGTTGGAACCATACCCAGCCC
ATGGTCCCATGACTAGGTGGATAGTACTCCTTGACTCTCTGCAACCCAGAACCCCTGGCTGACCACITTTGAAGGA
GGATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGACCTGC
AGGAGTTCTGGGTGGGGAGGTCTCTGTGTACAACTGGATGACCTACCAAGGTGAATCTGTGACACTAGAGA
CAGTCTTGAGGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGCTGCACCCTGGTAGCCT
TGAACCCCTTCAAGCCTGTTCTCAGCTCTACTCGCCCGAGCTAATGAGAGAGTACCATGCTGCGCCTCAGCCCC
AGAAACTGAAGCCCATGTGTTCACTGTGGGTGAACAGACCTACAGGAATGTCAAGAGCCTGATTGAACAGTCA
ACCAGTCTATTGTTGTCACTGGAGAGAGTGGTGTGGAAGACATGGACGTCTCGCTGCCTAATGAAGTTCTATG
CTGTGGTGGCCACCTCACCTGCATCTTGGGAGAGCCACAAGATTGCAGAGAGGATAGAACAGAGGATCCTGAACT
CCAACCCCTGTATGGAAGCTTTTGGGAATGCGTGTACACTGAGGAATAACAACAGCAGTCGCTTTGGGAAGTTCA
TCCAGCTCCAGCTGAACAGGGCTCAGCAAATGACTGGAGCCGAGTCCAGACCTACCTCCTAGAGAAAACCTCGAG
TGGCCTGCCAGGCTTCCAGTGAGAGGAACTTCCACATCTTCTATCAGATTGCAAAGGAGCCAGTGAGGACGAGA
GGCTCCAGTGGCACCTTCTGAGGGAGCTGCCTTCTCTGGCTGCCCAACCCAGAGAGGAGCTTAGAAGAGGATT
GTTTTGAGGTGACCAGAGAGGCCATGCTCCATTGCGCATTGACACCCCTACCCAGAACAACATCTTTAAGGTCC
TAGCTGGACTGCTGCACCTTGGCAATATCCAGTTTGTCTGCTCCGAGGATGAAGCCAGCCCTGCCAGCCGATGG
ATGATGCCAAGTACTCTGTACAGGACGGCAGCCTCGTGTCTGGGGCTCCCAGAGGACGTGTCTGAGATGGTGC
AGATTAGAACCATCAGGGCAGGCAGACAGCAGCAGGTGTTCCGGAAGCCCTGCGCCGAGCCGAGTGTGACACCC
GTAGAGACTGCCTGGCCAACTGATCTATGCGCGGTGTTTGTACTGGCTGGTATCAGTGATCAACAGCAGCATCT
GTGCAGACACCGACTCGTGGACCACTTTCATAGGCTGTCTGGATGTGTATGGATTGTAATCATTTCTGACAAACA
GTCTGGAACAGTTGTGCATCAACTACGCCAATGAGAAGCTGCAGCTGGAGGCCTGTGGCCTCGTGGAGACCATCC
ATATCAGTGTCTGTGGCTTCCCATCCGGGTCTCTACCGAACTTTGTAGAACGATACAAGTTACTAAGAAGGC
TTCATCCTTGACATCCTCTGGCCCCGACAGCCCATATCTGCCAAAGGGCTCCCTGAATGGTGTCCACACAGCG
AGGAAGCCACGCTGAACCTCTCATCCAGGACATTCTCCACACTCTGCCGGTCTTAACCTCAGGCAGCAGCCATAA
CTGGTGACTCGGCTGAGGCCATGCCAGCCCCATGCACTGTGGCAGGACCAAGGTGTTTCACTGACTCTATGC
TGGAGCTTCTGGAATGTGGCGTGGCCGGGTGCTGGAGCAGTGTGCCCGCTGCATCCAGGTGGCTGGAGGCGAC
ACCGGCACCGAGAGCAGGAGCGGCAGTGGCGGGCGTCTATGCTCATCCAGGCAGCCATTCTGTTCTGGTTAACTC
GGAAACACATCCAGAGGCTGCATGCAGCTGCCACAGTCATCAAGCGTGCATGGCAGAAGTGGAGAATCAGAATGG
CCTGCCTTGCTGCTAAAGAGCTGGATGGTGTGGAAGAAAAACACTTCTCTCAAGCTCCCTGTTCCCTGAGCACCT
CGCCGCTGCAGACCAGGCTCCTGGAGGCAATAATCCGCTCTGGCCCTGGGACTGGTCTGGCCAATACGGCTA
TGGGTGTAGGCAGCTTTCAGAGGAAATTAGTGGTCTGGGCTTGCCTCCAGCTCCCCAGGGGCAGCCCCAGTAGCT
ACACTGTCCAGACAGCACAAGACCAGGCTGGTGTACGTCCATCCGAGCGCTGCCTCAGGATCGATAAAGTTTC
ACTGCAGAAAGTCTCCACTGCGGTATGCTGACATCTGCCCTGAACCTTCACCTACAGCATTACAGGCTTTAATC
AGATTCTGCTGGAAGACACAGGCTGATCCACGTGACCTCTTCTGCCTTCACTGGGCTGGGGTGATCCTTGGTGC
CTTTGTTTCCACAAGGCCTTTTCTGCCCCCTGCCTTGCCAAAGACATTTAATCAGCACACAGCTGCCAGACTAT
TCCACAGTGTCCAAATGCACATGAACAACAGTGACGGCTCCAGCCTTCGACCCAGAGCCCCGTGCCAGTGCG
TCAGTGGGCTGGGGTTCCAGGCTACATCAAGCACTGATGGTGTGAGGGCTGGTAGTTACCAATCAGGGTTAAG
AAACATCAGGGCCACATTTCACTACCTTACAGATCAAACTCAGCAGCAGTCATGACTGTCTGTCACTACACTGG
GGATCCCAATTCACATAAGCACTTTTGAAGAAAACAGCCAAAGTTGGCCTAAAATTGGCGCTGGAATTTGGGC
TGGGAAAAATCTGTGGTTATTTCTTTAAAAAGGAACAAAACCTTAGTATTTAATTAGTTGATTTATTTAATGT
AATTTCAAACAATTAAATTATGAATAATGCAATGT

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FIGURE 4841

ATGGACATGGCGGATGAGCCACTCAATGGAAGCCACACATGGCTATCCATTCCATTGACCTCAATGGCTCTGTG
GTGTCAACCAACACCTCAAACCAGACAGAGCCGTACTATGACCTGACAAGCAATGCAGTCCTCACATTCATCTAT
TTTGTGGTCTGCATCATTGGGTTGTGTGGCAACACACTTGTCATTTATGTCATCCTCCGCTATGCCAAGATGAAG
ACCATCACCAACATTTACATCCTCAACCTGGCCATCGCAGATGAGCTCTTCATGCTGGGTCTGCCTTTCTTGGCT
ATGCAGGTGGCTCTGGTCCACTGGCCCTTTGGCAAGGCCATTGCGGGTGGTCATGACTGTGGATGGCATCAAT
CAGTTCACCAGCATCTTCTGCCTGACAGTCATGAGCATCGACCGATACCTGGCTGTGGTCCACCCCATCAAGTCG
GCCAAGTGGAGGAGACCCCGGACGGCCAAGATGATCACCATGGCTGTGTGGGGAGTCTCTCTGCTGGTCATCTTG
CCCATCATGATATATGCTGGGCTCCGGAGCAACCAGTGGGGGAGAAGCAGCTGCACCATCAACTGGCCAGGTGAA
TCTGGGGCTTGGTACACAGGGTTCATCATCTACACITTCATTCTGGGGTTCTGGTACCCCTCACCATCATCTGT
CTTTGCTACCTGTTTATTATCATCAAGGTGAAGTCTCTGGAATCCGAGTGGGCTCCTCTAAGAGGAAGAAGTCT
GAGAAGAAGGTACCCGAATGGTGTCCATCGTGGTGGCTGTCTTCATCTTCTGCTGGCTTCCCTTCTACATATTC
AACGTTTCTTCCGCTCTCCATGGCCATCAGCCCCACCCAGCCCTTAAAGGCATGTTTGACTTTGTGGTGGTCTC
ACCTATGCTAACAGCTGTGCCAACCTATCCTATATGCCTTCTTGTCTGACAACTTCAAGAAGAGCTTCCAGAAT
GTCCTCTGCTTGGTCAAGGTGAGCGGCACAGATGATGGGGAGCGGAGTGACAGTAAGCAGGACAAATCCCGGCTG
AATGAGACCACGGAGACCCAGAGACCCTCCTCAATGGAGACCTCCAAACCAGTATCTGA

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FIGURE 4842

MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYDLTSTNAVLTFIYFVVCIIIGLCGNTLVIIYVILRYAKMK
TITNIYILNLAIADLFLGLPFLAMQVALVHWPFKAICRVVMTVDGINQFTSIFCLTVMSIDRYLAVVHPIKS
AKWRRPRTAKMITMAVWGVSLLVILPIMIIYAGLRSNQWGRSSCTINWPGESGAWYTGFIITYFILGFLVPLTIIC
LCYLFIIIKVKSSGIRVGSSKRKKSEKKVTRMVSIVVAVFIFCWLPFYIFNVSSVSMAISPTPALKGMFDFVVL
TYANSCANPILYAFLSDNFKKSFQNVLCVLKVSCTDDGERSDSKQDKSRLNETTETQRTLLNGDLQTSI

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FIGURE 4843

CAGCGAGCCGCGAGCGCAATCCCGGCGCTCGCCCAAGGACCCTGGAAGCTACCGTTACCCGCGCGGCAGCGTGGGC
GCCATGAGCAGCTCGGGAAGTTCGGAGAAGGTAGCTGCTCTGATACAGAACTGAATTCGACCCCCAGTTC
GTACTTGCCAGAAATGTCGGGACCACCCACGACCTGCTGGACATCTGTCTGAAGCGGGCCACGGTGCAGCGCGCG
CAGCATGTGTTCCAGCAGCCGTGCCCCAGGAGGGCAAGCCAATCACCACCAGAAGAGCTCAGGGCGATGCTGG
ATCTTTTCTGTCTGAATGTTATGAGGCTTCCATTTCATGAAAAAGTTAAATATTGAAGAAATTTAGTTTAGCCAA
TCTTACCTGTTTTTTTGGGACAAGGTTGAACGCTGTTATTTCTTCTTGAGTGCTTTTGTGGACACAGCCCAGAGA
AAGGAGCCTGAGGATGGGAGGCTGGTGCAGTTTTTGTCTATGAACCCCTGCAAATGATGGTGGCCAATGGGATATG
CTTGTTAATATTGTTGAAAAATATGGTGTATCCCTAAGAAATGCTTCCCTGAATCTTATACAACAGAGGCCAACC
AGAAGGATGAATGATAATTCTGAATCACAAGATGAGAGAATTCTGTATACGACTGCGGAACCTGGTACACAGTGA
GCAACCAAGGAGAAATCTCGGCCACACAGGACGTCATGATGGAGGAGATATTCGAGTGGTGTGCATCTGTTTG
GGTAATCCACCAGAGACATTCACCTGGGAATATCGAGACAAAGATAAAAATTATCAGAAAAATGGCCCCATAACA
CCCTTGGAGTTTTTACAGGGAACATGTCAAGCCACTCTTCAATATGGAAGATAAGATTTGTTTAGTGAATGACCC
AGGCCCCAGCACAAGTACAACAACTTTACACAGTGAATACTTAAGCAATATGGTTGGTGGGAGAAAACTCTA
TACAACAACCAGCCCATTGACTTCCCTGAAAAAGATGGTTGCTGCCTCCATCAAAGATGGAGAGGCTGTGTGGTTT
GGCTGTGATGTTGGAAAACACTTCAATAGCAAGCTGGGCCTCAGTGACATGAATCTCTATGACCATGAGTTAGT
TTTGGTGTCTCCTTGAAGAACATGAATAAAGCGGAGAGGCTGACTTTTGGTGAGTCACTTATGACCCACGCCATG
ACCTTCACTGCTGTCTCAGAGAAGGATGATCAGGATGGTGCTTTCACAAAATGGAGAGTGGAGAATTCATGGGGT
GAAGACCATGGCCACAAAGGTTACCTGTGCATGACAGATGAGTGGTTCTCTGAGTATGCTACGAAGTGGTGGTG
GACAGGAAGCATGTCCCTGAAGAGGTGCTAGCTGTGTTAGAGCAGGAACCCATTATCCTGCCAGCATGGGACCCC
ATGGGAGCTTTGGCTGAGTGATACTGCCCCCAGCTCTTCTCCTTCCATGGAACCTGACGTAGCTGCAAAGGA
CAGATCCAGGGAAGTGAAGCCAAAGTTATGCAAGGGAAGTGTGTGTTGCCACAGGACACAGTCAGATTTCCAGTCTC
CACCAGGAACCTCTTCAGAAAGTGTGCTTTATGCTGAAACAGAATACTGTAAAGGAAAAAAGAGGGGGGAAG
ATCAGGTCATACTATCTACTCTCCTCATCTCTAACAGCTCAGGATCTCTTAGCATTTTAATTAGATGTAATTGTT
TGCTTTAACTGTCAAAAAGTTTGGTTCTGTGTCTGTGTTTAAATAAGACGAGAGGACGAGCGATTGAGGTGTAT
GGAGAGAAAACAGACCTAATGCTCCTTGTTCCTAGAGTAGAGTGGAGGGAGGGTGGCCTAAGAGTTGAGCTCTCG
GAACTGCATGCTGCTGGACAGTATCACTGTCTTTCTAGATGGCAGTCACTGAATTC

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FIGURE 4844

MSSSGLNSEKVAALIQKLNSDPQFVLAQNVGTTDILLDICLKRA TVQRAQHVFQHAVPQEGKPITNQKSSGRCWI
FSCLNVMRLPFPKKLNIEEFESQSYLFFWDKVERCYFFLSAFVDTAQRKEPEDGRLVQFLLMNPANDGGQWDM L
VNIVEKYGVIPKKCFPESYTTEATRMMNDILNHKMRFCIRLRNLVHSGATKGEISATQDVMMEEIFRVVCICLG
NPPETFTWEYRDKDKNYQKIGPITPLEFYREHVKPLFNMEDKICLVNDPRPQHKYNKLYTVEYLSNMVGGRTLY
NNQPIDFLKKMVAASIKDGEAVWFGCDVGKHFNSKLGSDMNLYDHELVFGVSLKNMNKAERLTFGESLMTHAMT
FTAVSEKDDQDGAFTKWRVENSWGEDHGKGYLCMTDEWFSEYVYEVVVDRKHVPEEVLAVLEQEP IILPAWDPM
GALAE

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FIGURE 4845

GTAGTCTGAGCGCTACCCGGTTGCTGCTGCCCAAGGACCGCGGAGTCGGACGCAGGCAGACCATGTGGAACCTGG
TGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGCCCAGATGGTCAGTTCTGCCCTGTGGCCT
GCTGCCTGGACCCCGGAGGAGCCAGCTACAGCTGCTGCCGTCCCCCTTCTGGACAAATGGCCACAACACTGAGCA
GGCATCTGGGTGGCCCTGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGA
CTTCCAGTTGCTGCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCACAGGGGCTTCCACT
GCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACCTCCGTGGGTGCCATCCAGTGCCCTGATAGTC
AGTTCGAATGCCCGGACTTCTCCACGTGCTGTGTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGG
CTTCTGCTGTGAAGACAGGGTGCAGTGTGCTCCGCACGGTGCCTTCTGCGACCTGGTTACACCCGCTGCATCA
CACCCACGGGCACCCACCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTGGCCTTGTCCAGCT
CGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACCTGCTGTGAGCTGCCCAGTGGGAAGTATG
GCTGTGCCCAATGCCAACGCCACCTGCTGCTCCGATCACCTGCACTGCTGCCCCAAGACACTGTGTGTGACC
TGATCCAGAGTAAGTGCTCTCCAAGGAGAAGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGG
GGGATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAGTCGGGGGCTGGG
GCTGTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACACTGCTGTCCCGCGGGGTTTACGTGTGACA
CGCAGAAGGGTACCTGTGAACAGGGGCCCCACCAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGC
CAGACCCACAAGCCTTGAAGAGAGATGTCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCC
AACTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCACCAGCACTGCTGCC
CCCAGGGCTACACGTGTGTAGCTGAGGGGCAGTGTGAGCGAGGAAGCGAGATCGTGGCTGGACTGGAGAAGATGC
CTGCCCGCGGGCTTCCTTATCCACCCAGAGACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGGCAGA
CCTGTGCCCGAGCCTGGGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGC
ACTGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTCTCTGCCCAGCCTG
CCACCTTCTGCCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAGTGTGGGAAGGACACTTCTGCCATGATA
ACCAGACCTGCTGCCGAGACAACCGACAGGGCTGGGCCTGCTGTCCCTACCGCCAGGGCGTCTGTTGTGCTGATC
GGCGCCACTGCTGTCTGCTGGCTTCCGCTGCGCAGCCAGGGGTACCAAGTGTGCGCAGGGAGGCCCCGCGCT
GGGACGCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTGTGAGGGACAGTACTGAAGACTCTGCAGCCCTCGG
GACCCCACTCGGAGGGTGCCCTCTGCTCAGGCCTCCCTAGCACCTCCCCCTAACCAAATTCTCCCTGGACCCAT
TCTGAGCTCCCCATCACCATGGGAGGTGGGGCCTCAATCTAAGGCCTTCCCTGTGAGAAGGGGGTGTGGCAAAA
GCCACATTACAAGCTGCCATCCCCTCCCCGTTTCAGTGGACCCTGTGGCCAGGTGCTTTTCCCTATCCACAGGGG
TGTTTGTGTGTGTGCGCGTGTGCGTTTCAATAAAGTTTGTACACTTTCAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4846

MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTTLRHLGGPCQVDAHCSAGHSCIF
TVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGRSCFQSRGNNVSGAIQCPDSQFECPDFSTCCVMVDGSWGCC
PMPQASCCEDRVHCCPHGAFCDLVHTRCITPTGTHPLAKKLPAQRTNRAVALSSSV MCPDARSRCPDGSTCCELP
SGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLSKENATTDLLTKLPAHTVGDVKCDMEVSCPDGYTCCRLQ
SGAWGCCPFTQAVCCEDHIHCCPAGFTCDTQKGTCEQGPHQVPWMEKAPAHLSLPDPQALKRDVPCDNVSSCPSS
DTCCQLTSGEWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGSEIVAGLEKMPARRASLSHPRDIGCDQHTSC
PVGQTCCPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCNVKARSCEKEVVSAQPATFLARSPHVGVKDVECGEGH
FCHDNQTCCRDNRQGWACCPYRQGVCCADRRHCCPAGFRCAARGTKCLRREAPRWDAPLRDPALRQLL

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FIGURE 4847

GGCTAGGTGCGCTGCGAGCGCGCGGAGCCACGAGGGCGGACGGACGTAATGGGCCCGCCTGGCCCTGGGCGCCGC
GCCGCACGAGCACCAGCCTAGAGCCAGGACTGAAGCTTCAAGATGGCTGACCAGGACCCTGCGGGCATCAGCCCC
CTCCAGCAAATGGTGGCCTCAGGCACCGGGGCTGTGGTTACCTCTCTCTTCATGACACCCCTGGACGTGGTGAAG
GTTGCGCTGCAGTCTCAGCGGCCCTCCATGGCCAGCGAGCTGATGCCTTCCTCCAGACTGTGGAGCCTCTCCTAT
ACCAAATGGAAGTGCCTCCTGTATTGCAATGGTGTCTGGAGCCTCTGTACCTGTGCCCAAATGGTGGCCGCTGT
GCCACCTGGTTTCAAGACCCTACCCGCTTCACTGGCACCATGGATGCCTTCGTGAAGATCGTGAGGCACGAGGGC
ACCAGGACCCTCTGGAGCGGCCCTCCCGCCACCCTGGTGATGACTGTGCCAGCTACCGCCATCTACTTCACTGCC
TATGACCAACTGAAGGCCTTCCTGTGTGGTCGAGCCCTGACCTCTGACCTCTACGCACCCATGGTGGCTGGCGCG
CTGGCCCGCCTGGGCACCGTGACTGTGATCAGCCCCCTGGAGCTTATGCGGACAAAGCTGCAGGCTCAGCATGTG
TCGTACCGGGAGCTGGGTGCCTGTGTTTGAAGTGCAGTGGCTCAGGGTGGCTGGCGCTCACTGTGGCTGGGCTGG
GGCCCCACTGCCCTTCGAGATGTGCCCTTCTCAGCCCTGTACTGGTTCAACTATGAGCTGGTGAAGAGCTGGCTC
AATGGGTTTCAAGCCGAAGGACCAGACTTCTGTGGGCATGAGCTTTGTGGCTGGTGGCATCTCAGGGACGGTGGCT
GCAGTGCTGACTCTACCCCTTTGACGTGGTAAAGACCCAACGCCAGGTGCTCTGGGAGCGATGGAGGCTGTGAGA
GTGAACCCCTGCATGTGGACTCCACCTGGCTGCTGCTGCGGAGGATCCGGGCCGAGTCGGGCACCAAGGGACTC
TTTGCAGGCTTCCTTCCTCGGATCATCAAGGCTGCCCCCTCCTGTGCCATCATGATCAGCACCTATGAGTTCGGC
AAAAGCTTCTTCCAGAGGCTGAACCAGGACCGGCTTCTGGGCGGCTGAAAGGGGCAAGGAGGCAAGGACCCCGTC
TCTCCACGGATGGGAGAGGGCAGGAGGAGACCCAGCCAAGTGCCTTTTCTCAGCACTGAGGGAGGGGGCTTG
TTTCCCTTCCCTCCCGCGACAAGCTCCAGGGCAGGGCTGTCCCTCTGGGCGGCCAGCACTTCCTCAGACACAA
CTTCTTCTGCTGCTCCAGTCTGTGGGATCATCACTTACCCACCCCCAAGTTCAAGACCAAATCTTCCAGCTGC
CCCCCTCGTGTTCCTGTGTTTGTGTAGCTGGGCATGTCTCCAGGAACCAAGAAGCCCTCAGCCTGGTGTAGT
CTCCCTGACCCTTGTTAATTCCTTAAGTCTAAAGATGATGAACCTTCAAAAAAAAAA

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FIGURE 4848

MADQDPAGISPLQQMVASGTGAVVTSLEMTPLDVVKVRLQSQRPMSASELMPSSRLWSLSYTKWKCLLYCNGVLE
PLYLCPNGARCATWFQDPTRFTGTMDAFVKIVRHEGTRILWSGLPATLVMTPATAIYFTAYDQLKAFLCGRALT
SDLYAPMVAGALARLGTVTVISPLELMRTKLQAQHVSRELGACVRTAVAQGGWRSLWLGWGPTALRDVPFSALY
WFNYELVKSWLNGFRPKDQTSVGMSFVAGGISGTVAAVLTLFPDVVKTRQVALGAMEAVRVNPLHVDSTWLLLR
RIRAESGTKGLFAGFLPRIIKAAPSCAIMISTYEFGKSFFQRLNQDRLLGG

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FIGURE 4849

GGAGCCGTCACCCCGGGCGGGGACCCAGCGCAGGCAACTCCGCGCGGGCGGCCGCGAGGGAGGGAGCGAGCGG
GCGGGCGGGCAAGCCAGACAGCTGGGCGGAGCAGCCGCGGGCGCCCGAGGGGCGGAGCGAGATTGTAAACCATG
GCTGTGTGGATACAAGCTCAGCAGCTCCAAGGAGAAGCCCTTCATCAGATGCAAGCGTTATATGGCCAGCATTTT
CCCATTGAGGTGCGGCATTATTTATCCAGTGGATTGAAAGCCAAGCATGGGACTCAGTAGATCTTGATAATCCA
CAGGAGAACATTAAGGCCACCCAGCTCCTGGAGGGCCTGGTGCAGGAGCTGCAGAAGAAGGCAGAGCACCAGGTG
GGGGAAGATGGGTTTTTACTGAAGATCAAGCTGGGGCACTATGCCACACAGCTCCAGAACACGTATGACCGCTGC
CCCATGGAGCTGGTCCGCTGCATCCGCCATATATTGTACAATGAACAGAGGTTGGTCCGAGAAGCCAACAATGGT
AGCTCTCCAGCTGGAAGCCTTGCTGATGCCATGTCCAGAAACACCTCCAGATCAACCAGACGTTTGAGGAGCTG
CGACTGGTCACGCAGGACACAGAGAATGAGTTAAAAAGCTGCAGCAGACTCAGGAGTACTTCATCATCCAGTAC
CAGGAGAGCCTGAGGATCCAAGCTCAGTTTGCCCGCTGGCCAGCTGAGCCCCCAGGAGCGTCTGAGCCGGGAG
ACGGCCCTCCAGCAGAAGCAGGTGTCTCTGGAGGCCTGGTTGCAGCGTGAGGCACAGACACTGCAGCAGTACCGC
GTGGAGCTGGCCGAGAAGCACCAGAAGACCCTGCAGCTGCTGCGGAAGCAGCAGACCATCATCTGGATGACGAG
CTGATCCAGTGAAGCGGCGGCAGCAGCTGGCCGGGAACGGCGGGGCCCCCGAGGGCAGCCTGGACGTGTACAG
TCCTGGTGTGAGAAGTTGGCCGAGATCATCTGGCAGAACC GGCGAGCAGATCCGAGGGCTGAGCACCTCTGCCAG
CAGCTGCCCCATCCCGGCCCAGTGGAGGAGATGCTGGCCGAGGTCAACGCCACCATCACGGACATTATCTCAGCC
CTGGTGACCAGCACATTTCATTGAGAAGCAGCCTCCTCAGGTCCTGAAGACCCAGACCAAGTTTGCAGCCACC
GTACGCCTGCTGGTGGGCGGGAAGCTGAACGTGCACATGAATCCCCCCCAGGTGAAGGCCACCATCATCAGTGAG
CAGCAGGCCAAGTCTCTGCTTAAAAATGAGAACACCCGCAAXXXXXXXXXXXTGGTGAGATCCTGAACAACTGCTGC
GTGATGGAGTACCACCAAGCCACGGGCACCCTCAXX
XX
XX
XX
GGCCGAGCTGTGTGAGGCGCTCAACATGAAATTCAAGGCCGAAGTGACAGCAACCGGGGCTGACCAAGGAGA
ACCTCGTGTTCCTGGCGCAGAACTGTTCAACAACAGCAGCAGCCACCTGGAGGACTACAGTGGCCTGTCCGTGT
CCTGGTCCCAGTTCAACAGGGAGAATTTACCAGGACGGAATTACACTTCTGGCAATGGTTTGACGGTGTGATGG
AAGTGTTAAAAAACATCTCAAGCCTCATTGGAATGATGGGGCCATTTTGGGGTTTGTAACAAGCAACAGGCC
ATGACCTACTCATTAAACAAGCCAGATGGGACCTTCTCCTGAGATTGAGTACTCAGAAATTGGCGGCATACCA
TTGCTTGGAAGTTTGATTCTCAGGAAAGATGTTTTGGAATCTGATGCCTTTTACCACCAGAGACTTCTCCATT
GGTCCCTAGCCGACCGCTTGGGAGACTTGAATTACCTTATCTACGTGTTTCTGATCGGCCAAAAGATGAAGTAT
ACTCCAAATACTACACACCAAGTTCCCTGCGAGTCTGCTACTGCTAAAGCTGTTGATGGATACGTGAAGCCACAGA
TCAAGCAAGTGGTCCCTGAGTTTGTGAACGCATCTGCAGATGCCGGGGCGGCAGCGCCACGTACATGGACCAGG
CCCCCTCCCCAGCTGTGTGTCCCCAGGCTCACTATAACATGTACCCACAGAACCCTGACTCAGTCCTTGACACCG
ATGGGGACTTCGATCTGGAGGACACAATGGACGTAGCGCGCGGTGTGGAGGAGCTCCTGGGCGGCCAATGGACA
GTCAGTGGATCCCGCACGCACAATCGTGACCCCGCGACCTCTCCATCTTCAGCTTCTTACCTACAGAGGAA
TCACTCTTGTGGATGTTTTAATTCCATGAATCGCTTCTCTTTGAAACAATACTCATAATGTGAAGTGTAAATAC
TAGTTGTGACCTTAGTGTCTGTGTCATGGTGGCACCAGCGAAGGGAGTGCAGATATGTGTTTGTGTGTGTGT
GTGTGTGTGTGTGTGTGCGTGTGTCACGTTATGGTGTGTTCTCCCTCTCACTGTCTGAGAGTTTAGTTGTAGCAG

A

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FIGURE 4850A

GCGGAGCCGGAGGAGCCGCCGCAAAGATGGAGGAGCCGTCGAGGAGGTGCTGCCGCCGCTGCCGCCGCCGCTGCT
GCCGCCGCCGCCGCCGGAAGCCGGAGCTCGAGCCGCAGCGGGATGCCGTTCTGAGTGCCTGACTGCCTCGCCCCG
AAGGATGGCCTCGGATGGGCATTAGAGGCACGGCGGCCCGGGCTCCCGTCCCGTCCGTCTGTCTGTTATCGTCT
GTCTCTCTTGACATCACCGAGCTCCACCCCTCCCGTCCAGCCCCAACGCCAGCTTCCTGCAGGCCAGAGC
CGGCATGAACCTCTCCCAACGAGTCGGATGGGATGTGAGGTCGGGAACCATCCTTGGAATCCTGCCGCGGACTTC
TCTGCACAGCATCCCTGTGACAGTGGAGGTGAAGCCGGTGTGCCAAGAGCCATGCCAGTTCATGGGGGGTGG
GGGTGGAGGCAGCCCCAGCCCTGTGGAGCTACGGGGGGCTCTGGTGGGCTCTGTGGACCCACACTGCGGGAGCA
GCAATGCAGCAGGAGCTCCTGGCGCTCAAGCAGCAGCAGAGCTGCAGAAGCAGCTCCTGTTGCTGAGTTCCA
GAAACAGCATGACCACCTGACAAGGCAGCATGAGGTCCAGCTGCAGAAGCACCTCAAGCAGCAGCAGGAGATGCT
GGCAGCCAAGCAGCAGCAGGAGATGCTGGCAGCCAAGCGGCAGCAGGAGCTGGAGCAGCAGCGGCAGCGGGAGCA
GCAGCGGCAGGAAGAGCTGGAGAAGCAGCGGCTGGAGCAGCAGCTGCTCATCTGCGGAACAAGGAGAAGAGCAA
AGAGAGTGCCATTGCCAGCACTGAGGTAAAGCTGAGGCTCCAGGAATTCCTCTGTGCGAAGTCAAAGGAGCCAC
ACCAGGCGGCCCTCAACCATTCCTCCACAGCACCCCAAATGCTGGGGAGCCACCATGCTTCTTGGACCAGAG
TTCCCTCCCCAGAGCGGCCCTGGGACGCTCCCTCTACAAACTGCCCTTGCCCTGGGCCCTACGACAGTCG
AGACGACTTCCCCCTCCGCAAAACAGCCTCTGAACCCAACCTGAAAGTGCGTTCAAGGCTAAACAGAAAGGTGGC
TGAGCGGAGAAGCAGTCCCCCTGCTGCGTCGCAAGGATGGGACTGTTATTAGCACCTTTAAGAAGAGAGCTGTTGA
GATCACAGGTGCCGGGCCCTGGGGCGTCTGTCGCTGTGTAACAGCGCACCCGGCTCCGGCCCCAGCTCTCCCAACAG
CTCCACAGCACCATCGCTGAGAATGGCTTTACTGGCTCAGTCCCCAACATCCCCACTGAGATGCTCCCTCAGCA
CCGAGCCCTCCCTCTGGACAGCTCCCCAACAGTTACAGCTCTACACGTCTCCTTCTCTGCCAACATCTCCCT
AGGGCTGCAGGCCACGGTCACTGTACCAACTCACACCTCACTGCCTCCCCGAAGCTGTGACACAGCAGGAGGC
CGAGAGGCAGGCCCTCCAGTCCCTGCGGCAGGGTGGCAGCTGACCGGCAAGTTTCATGAGCACATCCTCTATTCC
TGGCTGCCTGCTGGGCGTGGCACTGGAGGGCGACGGGAGCCCCACGGGCATGCCTCCCTGCTGCAGCATGTGCT
GTTGCTGGAGCAGGCCCGGCAGCAGAGCACCTCATTTGCTGTGCCACTCCACGGGCAGTCCCCACTAGTGACGGG
TGAACGTGTGGCCACCAGCATGCGGACGGTAGGCAAGCTCCCGCGGCATCGGCCCTGAGCCGCACTCAGTCCTC
ACCGCTGCCGCAGAGTCCCCAGGCCCTGCAGCAGCTGGTCATGCAACAACAGCACCAGCAGTTCCTGGAGAAGCA
GAAGCAGCAGCAGCTACAGCTGGGCAAGATCCTCACCAAGACAGGGGAGCTGCCAGGCAGCCCACACCCACCC
TGAGGAGACAGAGGAGGAGCTGACGGAGCAGCAGGAGGTCTTGCTGGGGGAGGGAGCCCTGACCATGCCCCGGGA
GGGCTCCACAGAGAGTGAGAGCACACAGGAAGACCTGGAGGAGGAGGACGAGGAAGAGGATGGGGAGGAGGAGGA
GGATTGCATCCAGGTTAAGGACGAGGAGGGCGAGAGTGGTGTGAGGAGGGGGCCGACTTGGAGGAGCCTGGTGC
TGGATACAAAAAAGTGTCTCAGATGCCAGCCGCTGCAGCCTTTCAGGTGTACAGGCGCCCTCAGCCTGGC
CACTGTGCCCCACCAGGCCCTGGGCCGTACCCAGTCTCCCTGCTGCCCTGGGGGCATGAAGAGCCCCCAGA
CCAGCCCGTCAAGCACCTCTTACACAGGTGTGGTCTACGACACGTTTCATGCTAAAGCACCACTGTCATGTGCGG
GAACACACAGTGCACCTGAGCATGTGCGCGGATCCAGAGCATCTGGTCCCGGCTGCAGGAGACAGGCCTGCT
TAGCAAGTGCGAGCGGATCCGAGGTGCGAAAGCCACGCTAGATGAGATCCAGACAGTGCCTCTGAATACACAC
CCTGCTCTATGGGACCAGTCCCCTCAACCGGCAGAAGCTAGACAGCAAGAAGTTGCTCGGCCCATCAGCCAGAA
GATGTATGCTGTGCTGCCCTGTGGGGGCATCGGGGTGGACAGTGACACCGTGTGGAATGAGATGCACTCCTCCAG
TGCTGTGCGCATGGCAGTGGGCTGCCTGCTGGAGCTGGCCTTCAAGGTGGCTGCAGGAGAGCTCAAGAATGGATT
TGCCATCATCCGGCCCCCAGGACACCACGCCGAGGAATCCACAGCCATGGGATTCTGCTTCTTCAACTCTGTAGC
CATCACCGCAAAACTCCTACAGCAGAAGTTGAACGTGGGCAAGGTCCTCATCGTGGACTGGGACATTACCATGG
CAATGGCACCCAGCAGGCGTTCTATAATGACCCCTCTGTGCTCTACATCTCTCTGCATCGCTATGACAACGGGAA
CTTCTTTCCAGGCTCTGGGGCTCCTGAAGAGGTTGGTGGAGGACCAGGCGTGGGGTACAATGTGAACGTGGCATG
GACAGGAGGTGTGGACCCCCCATTTGGAGACGTGGAGTACCTTACAGCCTTACAGGACAGTGGTGATGCCATTGC
CCACGAGTTCTACCTGATGTGGTCTTAGTCTCCGCCGGGTTGATGCTGTGTAAGGACATCTGTCTCCTCTGGG
TGGCTACTCTGTACCCGCCAGATGTTTTGGCCACTTGACCAGGCAGCTGATGACCCTGGCAGGGGGCCGGGTGGT
GCTGGCCCTGGAGGGAGGCCATGACTTGACCGCCATCTGTGATGCCTCTGAGGCTTGTGTCTCGGCTCTGCTCAG
TGTAAGCTGCAGCCCTTGATGAGGCAGTCTTGACGCAAAAGCCCCAACATCAACGCAGTGGCCACGCTAGAGAA
AGTCATCGAGATCCAGAGCAAACACTGGAGCTGTGTGCAAGTTTCGCCGCTGGTCTGGGCCGCTCCCTGCGAGA
GGCCCAAGCAGGTGAGACCGAGGAGGCCGAGACTGTGAGCGCCATGGCCTTGCTGTGCGTGGGGGCCGAGCAGGC

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FIGURE 4850B

CCAGGCTGCGGCAGCCCGGGAACACAGCCCCAGGCCGGCAGAGGAGCCCATGGAGCAGGAGCCTGCCCTGTGACG
CCCCGGCCCCCATCCCTCTGGGCTTCACCATTGTGATTTGTTTATTTTCTATTAAAAACAAAAGTCACACA
TTC

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FIGURE 4851

MNSPNESDGMSEGREPSLEILPRTSLHSIPVTVEVKPVLPRAMPSSMGGGGGGSPSPVELRGALVGSVDPTLREQQ
LQQELLALKQQQQLQKQLLFAEFQKQHDHLTRQHEVQLQKHLKQQQEMLAAKQQQEMLAAKQQELEEQQRQREQQ
RQEELEKQRLQQLLILRNKEKSKESAIASTEVLRLQEFLLSKSKEPTPGGLNHSILPQHPCWGAHHASLDQSS
PPQSGPPGTPPSYKLPPLPGPYDSRDDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRRKDGTVISTFKKRAVEI
TGAGPGASSVCNSAPGSGPSSPNSSSHSTIAENGFTGSVPNIPTEMPLQHRALPLDSSPNQFSLYTSPSLPNISLG
LQATVTVTNSHLTASPKLSTQQEAERQALQSLRQGGTLTGKFMSTSSIPGCLLGVALEGDGSPHGHASLLQHVLL
LEQARQQSTLIAVPLHGQSPLVTGERVATSMRTVGKLPRRRPLSRTQSSPLPQSPQALQQQVLMQQQHQQFLEKQK
QQQLQLGKILTKTGELPRQPTTHPEETEEELTEQQEVLLGEGALTMPREGSTESESTQEDLEEEDDEEDGEEED
CIQVKDEEGESGAEEGPDLEEPGAGYKKLFSDAQPLQPLQVYQAPLSLATVPHQALGRTQSSPAAPGGMKSPPDQ
PVKHLFTTGVDYDTFMLKHQCMCGNTHVHPEHAGRIQSIWSRLQETGLLSKCERIRGRKATLDEIQT VHSEYHTL
LYGTSPLNRQKLD SKLLGPISQKMYAVLPCGGIGVDSDTVWNEMHSSSAVRMAVGCLLELAFKVAAGELKNGFA
IIRPPGHAEESTAMGFCFFNSVAITAKLLQQKLVNKGVLIVDWDIHHGNGTQQAFYNDPSVLYISLHRYDNGNF
FPGSGAPEEVGGGPGVGYNVNAWTGGVDPPIGDVEYLTAFTVVMPIAHEFSPDVVLVSAGFDAVEGHLSPGG
YSVTARCFGHLTRQLMTLAGGRVVLAELEGHDLTAICDASEACVSALLSVELQPLDEAVLQQKPNINAVATLEKV
IEIQSKHWSCVQKFAAGLGRSLREAQAGETEEAETVSAMALLSVGAEEQAQAAAAREHSRPAEEPMEQEPAL

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FIGURE 4852

CGGAGGAGAGCGCAGGAGGAAACAGTACCGGCTGGAGGCCGGTCTTGCAGGAGCGGGGGACTGCTGGGGGCGGGG
CTTGGTGGTGACTGCTGGCGGGGCGGGGCTGGGGCTCAGAGGGGTGGGCTTTGGAGATCAGAGGGTCGACGCTG
CTTCGTTGCCCTGGACTCTGGTTTCCGCCCTGGAGCAAGCCGGGGCTGGTCGGCAGCTGGGCCGCCATGGAGTCC
ACGCTGGGCGCGGGCATCGTGATAGCCGAGGCGCTACAGAACCAGCTAGCCTGGCTGGAGAACGTGTGGCTCTGG
ATCACCTTTCTGGGCGATCCCAAGATCCTCTTTCTGTTCTACTTCCCCGCGGCCTACTACGCCTCCCGCCGTGTG
GGCATCGCGGTGCTCTGGATCAGCCTCATCACCGAGTGGCTCAACCTCATCTTCAAGTGGTTTCTTTTGGAGAC
AGGCCCTTTTGGTGGGTCCATGAGTCTGGTTACTACAGCCAGGCTCCAGCCCAGGTTACACAGTTCCTCTTCT
TGTGAGACTGGTCCAGGCAGCCCTTCTGGACACTGCATGATCACAGGAGCAGCCCTCTGGCCCATAAATGACGGCC
CTGTCTTCGCAGGTGGCCACTCGGGCCCGCAGCCGCTGGGTAAGGGTGATGCCTAGCCTGGCTTATTGCACCTTC
CTTTTGGCGGTGGCTTGTGCGAATCTTCATCTTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACT
GGCGCTGTCTGGGCTGGCTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCA
CTGGCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACTGCGCCTGGATCTTTCTTGGTCCATC
AGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGATAGCCGGCCCTTGCCTCCCTGAGCCGT
GACTCAGGGGCTGCCCTGGGCCTGGGCATTGCCTTGCACTCTCCCTGCTATGCCCAGGTGCGTCGGGCACAGCTG
GGAAATGGCCAGAAGATAGCCTGCCTTGTGCTGGCCATGGGGCTGCTGGGCCCCCTGGACTGGCTGGGCCACCCC
CCTCAGATCAGCCTCTTCTACATTTTCAATTTCTCAAGTACACCCTCTGGCCATGCCTAGTCCTGGCCCTCGTG
CCCTGGGCAGTGCACATGTTTCAAGTGGCCAGGAAGCACCGCCCATCCACTCTTCTGACTTTCTTGTGTGCTTCCCT
TTCCTTTCCCTCCCAAAAGCCAACACTCTGTGACCACCACTCCAGGAGGCAGCCCCATCCCTTCCAGCCCC
TAAGTAGGCCCTCCCTCCCTAAATCTGCTTCCGACCACTGGTCTTAGCCCCAAAGATGGGCCTTCTCTCTCC
CAGATAAGTTGGTCTCCCTCTGCCTTTCCTCTCAAGCCCCAAAGAGCAAAGGCAACAGCAAGACCAGCGGGTT
CTTGCAACACTGTGAGGGGCGAGCCAGGCGGGCCCCAATAAAGCCCTTGAATACTT

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FIGURE 4853

MESTLGAGIVIAEALQNQLAWLENVWLWITFLGDPKILFLFYFPAAYYASRRVGI AVLWISLITEWLNLI FKWFL
FGDRPFWWVHESGYYSQAPAQVHQFPSSCETGPGSPSGHCMITGAALWPIMTALSSQVATRARSRWVRVMP SLAY
CTFLLAVGLSRIFILAHFPHQVLAGLITGAVLGWLMTPRVPMERELSFYGLTALALMLGTSLIYWILFTLGLDLS
WSISLAFKWCERPEWIVDSRPFASLSRDSGAALGLGIALHSPCYAQVRRQLGNGQKIACLVLAMGLLGPLDWL
GHPPQISLFYIFNFLKYTLWPCLVLALVPWAVHMFSAQEAPPIHSS

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FIGURE 4854

GGCACCAGGCGCGCAGCGGACTGCCCTTTCCCAAGATGCGCTCGAAGATAGGTTGAGACGGTGGATGTTGCAGCT
GATCATGCAGTTGGGTTGGGTGCTGCTCACACGCTGCCCCCTTTGGGGCTGCTTCAGCCAGCTCATGCTGTACGC
TGAGAGGGCTGAGGCACGCCGAAGCCCGACATCCCAGTGCCTTACCTGTATTCGACATGGGGGCAGCCGTGCT
GTGCGCTAGTTTCATGTCTTTGGCGTGAAGCGGCGCTGGTTCGCGCTGGGGGCCGCACTCCAATTGGCCATTAG
CACCTACGCCGCCTACATCGGGGGCTACGTCCACTACGGGGACTGGCTGAAGGTCGGTATGTACTCGCGCACAGT
TGCCATCATCGGCGGCTTTCTTGTGTTGGCCAGCGGTGCTGGGGAGCTGTACCGCCGGAACCTCGCAGCCGCTC
CCTGCAGTCCACCGGCCAGGTGTTCTTGGGTATCTACCTCATCTGTGTGGCCTACTCACTGCAGCACAGCAAGGA
GGACCGGCTGGCGTATCTGAACCATCTCCAGGAGGGGAGCTGATGATCCAGCTGTTCTTCGTGCTGTATGGCAT
CCTGGCCCTGGCCTTTCTGTGAGGCTACTACGTGACCCCTCGCTGCCCAGATCCTGGCTGTACTGCTGCCCCCTGT
CATGCTGCTCATTGATGGCAATGTTGCTTACTGGCACAACACGCGGCGTGTGAGTTCTGGAACAGATGAAGCT
CCTTGGAGAGAGTGTGGGCATCTTCGGAAGTGTGTCATCCTGGCCACTGATGGCTGAGTTTTATGGCAAGAGGC
TGAGATGGGCACAGGGAGCCACTGAGGGTCACCCCTGCCTTCCTCCTTGCTGGCCAGCTGCTGTTTATTTATGCT
TTTTGGTCTGTTTGTGTTGATCTTTTGCTTTTTTAAAATTGTTTTTGCAGTTAAGAGGCAGCTCATTGTCCAAA
TTTCTGGGCTCAGCGCTTGGGAGGGCAGGAGCCCTGGCCTAATGCTGTACAGGTTTTTTTCTGTTAGGAGAGC
TGAGGCCAGCTGCCCCTGAGTCTCCTGTCCCTGAGAAGGGAGTATGGCAGGGCTGGGATGCGGCTACTGAGAGT
GGGAGAGTGGGAGACAGAGGAAGGAAGATGGAGATTGGAAGTGAGCAAATGTGAAAAATTCCTCTTTGAACCTGG
CAGATGCAGCTAGGCTCTGCAGTGTGTTTGGAGACTGTGAGAGGGAGTGTGTGTGTTGACACATGTGGATCAGG
CCCAGGAAGGGCACAGGGGCTGAGCACTACAGAAGTCACATGGGTCTCAGGGTATGCCAGGGGCAGAAACAGTA
CCGGCTCTCTGTCACTCACCTTGAGAGTAGAGCAGACCCTGTTCTGCTCTGGGCTGTGAAGGGGTGGAGCAGGCA
GTGGCCAGCTTTGCCCTTCCTGCTGTCTCTGTTTCTAGCTCCATGTTGGCCTGGTGGGGGTGGAGTTCCCTCCC
AAACACCAGACCACACAGTCTCCAAAAATAAACATTTATATAGACAAAAA

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FIGURE 4855

MASKIGSRRWMLQLIMQLGSVLLTRCPFWGCFSQLMLYAERAEARRKPDIPVPYLYFDMGAAVLCASFMSFGVKR
RWFALGAALQLAISTYAAYIGGYVHYGDWLKVRMYSRTVAIIGGFLVLASGAGELYRRKPRSRSLQSTGQVFLGI
YLICVAYSLQHSKEDRLAYLNHLPGGELMIQLFFVLYGILALAFLSGYVTLAAQILAVLLPPVMLLIDGNVAYW
HNTRRVEFWNQMKLLGESVGIFGTAVILATDG

5264/6881
FIGURE 4856

AAAGGACCGAGGCGTGCAGCGGACAGCAGATGGATCCCGCGGCCAGCAGCTGCATGAGGAGCCTCCAGCCCCCAG
CCCCGTGTCTGGGGCTGCCTTCGAAACCCCCACTCGGAAGGCAATGGGGCCTCAGGGCTACCCCACTACCCGCCCA
CCCCGTTCTCCTTCCACCAGAAACCAGACTTCTTGGCGACAGCGACGGCAGCGTACCCTGACTTCTCAGCCTCCT
GCCTGGCAGCCACCCACACAGCCTGCCCCAGGAGGAGCACATCTTCACTGAGCAGCACCCCGCTTCCCACAGT
CCCCCACTGGCACTTCCCTGTCTCAGACGCCCCGGCGCAGGCCCAACTCAGGCCCGGCAGGGGGTTCCAAGGAAA
TGGGGACCAGCAGCCTGGGCCTGGTGGACACCACAGGAGGCCAGGCGATGACTACGGGGTGTCTGGGAGCACTG
CCAATGAGACAGAGAAGAAATCATCCAGGCGGAGAAAGGAGAGTTTCAACAACCAGGAGAACAGAGGGAAGCCGG
AGGGCAGCAGCAAAGCCCGCAAGGAGAGGACGGCCTTCACCAAGGAGCAGCTGCGAGAGCTGGAGGCAGAGTTTG
CCCATCATAACTACCTGACTCGGCTCCGCAGATATGAGATTGCGGTAAACCTGGACCTCTCTGAGCGCCAGGTCA
AAGTGTGGTTCCAGAACCAGGATGAAGTGAAGCGTGTGAAGGGAGGTGAGCCCATCTCCCCCAATGGGCAGG
ACCTTGAGGATGGGGACTCCACAGCCTCTCCAAGTTTCAAGTGTGAGATTCTGCATGGAGGAAAAATGACTAAGGAC
TGAGCCCCCTACCCAATACCCCCACCCCAATCCCACCTTACCCTCTTCTTCCCCAGCCAGGGCAGCCTCTCC
ACATCTTTCCTGACTCTTGATATGAACTGCCCAGCATTCCTGGGAGTCTTAGGATTTTCTAGGAAGTTCTGT
CCAGCCTCTTAGCAGCCTCTTCCCTAGGGCCTTTGCTCCCACTCTCATGGAATCAGACAGAGATCCTACCGGG
CCGGATGAATCTGGAACAGCTTCAAGATACTGCTTCTCAGCGTCTCTTGGCTGCCACCCATGCCTCCTCCTAC
CGCTGTTCTCCTAGGTGAGCCAGGCCTCCTCCTGGTCTGGACACCACCTGGCCTGGTGGGAGAGGAGCTTTGGAA
CCAGCTGGCGACTCGGAAAGTAAATGCTTCAAAGGAAGGAAATGACAGAGACACACGCCCTTGCCACCTTCTCT
CTGTAGGCTGCACATCTGAGGCTTTGGGGCCCTTAGTTGTCCCGAAACCCCAAGAAAAATCAGAATGAGGAGAG
TCAAGGACAGCAACTCAGCTGCTGCAAGCCAGAAACACATCCCTGTCTCCAAATTTGTTGGCTAAGTGGAGACAC
TTCTGAGAACTGACTAGAGAAGACAGAAAAATAGCCCGATGTAGGTTTTCGGTGTCCCCATATAGCCCCGTCCACA
CAGGCTTACTGGGTGGACAAGAATGAACCCATGACAGCACCTGCTGCTTCAAATCAAATCAATTTAGGGATA
CAGCAGGGGCTGTTGGGCTGTGCTCCAGAGAAAAGGAGCAGCTACTCCTTTTAAATCCACGATTCTGGATTGAA
AACCTGTCCAGATGCTGAGTTGTTGGGCTGAACAACCTAGGAGCTGAAAACAACGTAGAGGCTGGAAAGTGTCCCC
TGCATTCTGGAGGGGAGGGGAGATAATAAGGAGGGCTGCTGGGTGAGGGCCTGGAGATGTGGAACCCCTGGAGTGG
AAGGTTCTCCAGTGACAGTGTCTGTGACTGCAAAAGGGGACAAGAAAATCCCTCTTCTCCTCCATGGGATGGATTT
AAGCTCTTGCTGTGTGTTCTACAAATGCTGTTATTGTGGGAGGAAATGCTAGGTTTTTGTGTGTGGACTGCCAG
ACCTCAGCCAGGTCTTCTGGAGATGACATTTGAGGACTGATGGCCAAAGAGCATGGGGGACTGAAGCCCTGGCTG
CCTCAGCGCTCTGTCTCCCAACACCAGCTGGTGTGTCAGAGGGAGGTCAACGTGAGTTTGGATCTCTTGTACGCA
GATGTAATCATTACATGTAAAAATAACCCACCTCCCCACCCCAAAAAGGGCAAGAGCTGTGGAAAATGATTGC
CAAATGAGATGGCTGGTTAGAGCATGATTTTTTCTAAAGCATACTTCATATATTTTCTTAAGATTACATCAAGCT
AATTGTGCGAGCTCAATTCACCTTTGTAAGAAAACCTCTCGGAGAAAATAAATCAATAAAAAGC

5265/6881
FIGURE 4857

GAGCGGCCCCGAGGAGGACGCGAGCGGCGCTGGAGCTTTCGTCGGACGAGGCGGIGGAGGTTGAGGAGGTTATTGAG
GAGTCCCCGCGCAGAGCGTATCAAGCGCAGACACTGCGGCGCGTGGACGACTTCAAGAAGGCCTTCTCCAAGGAGA
AGATGGAGAAGACCAAGGTGCGTACCCGCGAGAACCTGGAGAAGACGCGCCTCAAGACCAAGGAAAACCTGGAGA
AGACGCGGCACACCCTGGAGAAGCGCATGAACAAGCTGGGCACGCGCCTGGTGCCCGCCGAGCGGCGCGAGAAAC
TGAAGACGTCGCGGGACAAGTTGCGCAAATCCTTACGCCCCGACCACGTGGTGTACGCGCGCTCCAAGACCGCGG
TCTACAAGGTGCCACCCTTACCTTCCACGTCAAGAAGATCCGCGAGGGCCAGGTGGAAGTGCTCAAGGCCACCG
AGATGGTGGAGGTGGGCGCCGACGACGACGAGGGCGGCGGAGCGCGGGAGGCCGCGACCTGCGGCGCGGGAGC
AGCCCCGACGTGCACGCGCTGCTGGAGATCACCGAGGAGTCGGACGCGCTGCTGGTGGACAAGAGCGACAGCGAC
TGAGCCGCCCCGCTGCCACCCACCCATTCTCGCTCCTTCCGAACCTTCTCTTTCGCATTCTCTCTCGGCTCG
AGCTGGCTGAGATTTTTCTAAATTGAAAACAGCCCCCTCCCCACACCTCCAGGAACCTCCACTCCCAGTCTTAG
AGCTGTTAGGACCCGATGGGGAGGCAGCCCCGAGTGGACAGCCCCGCTTGGACACAGTCCGAGTGAATGGG
AAGGGAATGGTCAATCCCTGTCCTGGTTGTCCAAGTCGGGATCTCAGAGGAAATTGCAGTGATTCCACGGTTAGG
CCCCCTGGGGGGGCTGCCTTCCCCTCAGCCTCTCCCCACACCACCCACCCAGCTGCTGTCTATTCCGCTCACTGA
GCTCTTCTTCAATTCTACCCCTGATCCCTGGGGGACTCAAAGCCAAAACCTGCCAAAAGAGGAAAGATTGAATCCTA
AAGGGGATCCTTGCCCCATGGGAGGCCCCCTACTAGAAGGACGTGAAAGCAGCTTTGGGGGAACTGAGGCAG
TGGGGAAGACAGAGCAGAATGAGCCCTCACCTGGCTGGGGGTCCAGCACAGGCTGTATCTGCAGAGGGTCCAG
AGGAACGCTGGAGCCAAGAGAAGCCCTGGGAAGGAGGGGTGGGGAACGACATGCATGTGAGGGATGGCACACTGA
TGTGTTTATGCACCTGTACACAGGAGCGCATGGCCATGGCTTTGAAAGGAGAATGAAAAATAGAAGAAGGTCG
GCCGGGCTTGGTGGCTTATGCCTGTAACCCAGCACTTTGGGAGCCGAGGTGGGCGGATCACCTGAGGTCAGGA
GTTCCGGGACCAGCCTGGCAACACCCCATCTCTACTAAGCGAAAACCCATCTCTACTAAAATTACAAAAATTAGC
TGGGCATGATTGCGCATGCCTGTAATCCAGCTACTTTGGAGGCTGAGGTGGGAGAATTGCTTGAACCTGGGAG
GTGGAGGTTGCAGTGAGCCAAGGTCGCGACACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCCATCTCAACAG
AAGGAAAAAAAAGGAAAATAGGAGAAGGTGGAATGGGTGAAGAGAGAAGTCCCTCACTAGCTGCATGAGAAAT
CTATCTTACTGTGGTTCTCCATGGGCAGCAGGACCATTTTTCAGAATCAAGAGGGAGGACAGTGTGAGAAGGCGA
TGATCCAAAGAAGACAGAGAGGTGAGCCCCACCCGATCCCTCAAATGGGCTCTTGAGGACACCCACAGGGCAGC
CCATTTCTCAAAGTCCAGAAAATTAGGGTCCAGAAGGGGCGAGCAGCAGGCTGGGAGTTAGGAGGGAGAGCAGG
GTGCCGGCCCTGCCACCAAGTTGAGAGCTGGAGGGGAGGTGGGGAGAGAACATCACAGAGCAGCCAGCCCTGGTT
CACTCCTGGCAGTTTCTTCTCAAGCTCCTTCCTTAGGAGCATGGTGGCACGTGCCTGTGGTCTCAGCTACTTGGG
AGGCTGAGGCGGGAGGATCGCCAGAGCCAGGAGTTTGAGGCTGCAGTGAGCTATGAGGGTGCCTCTGTGCTCCA
TCCTAGGCAACAGAGTGAGACGCTGTTTAAAAAGGAAAAATCCTTCCCTAGAGCTAGTATCCTAAAGCTGCAGA
GCTAGCCAGACCTCATTGGTTTCTTGTCTTGGGGTGCTTTTCTGAATCTTTGGGGGTGAAGGGAGTGTGTC
TCCCAGTCCAGAGGCCTGATTCTGTTTCGGACTGGGTTCCTCAAGACACGACCAGGTTCTCAAGACACGAGTCCCCT
TGTTCTTCCCCATTAAAGGGGGTTTGTGAGAAGCAAGAACAGCCCCCTCTCCCAGTCACAGCCTGAAGGGAGGCC
CCGAGAGCTTCTCTTCCCCCACCTGCTCCTTACCTTCTCTGCCCTGCTTTTGTAGAACTGCAGTTTCAATTGTTT
TAAGGGATTGGGGGAGGGAGCCTGGGGACACAAACCTTTTATACAATACAAAGCTTTGCTTTTTTTTTTTTTTCT
TTCCTTTTCCCTTTTCTCGGTTCTTCTCTCTCTCTGAATGCGTGAAGACCCCTCTGCCGAGGGAGGTTGGGGATT
GTGGGACAAGGTCCCTTGGTGTGATGGCCTGAAGGGGCTGAGCTGTGGGCAGATGCAGTTTTCTGTGGGCTTG
GGGAACCTCTCACGTTGCTGTGTCTGGTGGAGCAGCCGACCAATAAACCTGCTTTTCT

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FIGURE 4858

MEKTKVRTRENLEKTRLKTKENLEKIRHTLEKRMNKLGTRLVPAERREKLKTSRDKLKRSFTPDHVVIYARSKTAV
YKVPFFTFHVKKIREGQVEVLKATEMVEVGADDDEGGGARGGRRPAAREQPRRARAAGDHRGVGRRAGGQERQRL
SRPRCHPPHSSLPNFLFRILSRLELAEIFLN

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FIGURE 4859

ATGGCCGTATTCCGGTCGGGTCTCCTGGTGCTGACGACGCCGCTGGCCTCCCTAGCCCCCTCGCCTGGCCTCCATC
CTGACCTCGGCGGCCCCGGCTGGTGAATCACACACTCTATGTTACCTGCAGCCGGGCATGAGCCTGGAGGGCCCCG
GCTCAGCCCCAGTACAGCCCCGTCAGGCCACGTTTGAGGTTCTTGATTTCATCACGCACCTCTATGCTGGCGCC
GACGTCCACAGGCACTTGGACGTGAGAATCCTACTGACCAATATCCGAACCAAGAGCACCTTTCTCCCTCCCTG
CCCACCTCAGTCCAGAATCTCGCCACCCGCCAGAAGTCGTGTTGACAGATTTCCAGACCCCTGGATGGAAGCCAG
TACAACCCGGTCAAACAGCAGCTAGTGCCTTACGCCACCAGCTGTTACAGCTGTTGTCCGCGACTGGCCTCGGTG
CTGCTATACTCCGATTATGGGATAGGAGAAGTGCCCGTGGAGCCCCCTGGATGTCCCCTTACCCTCCACGATCAGG
CCAGCTTCCCCGTGGCCGGGTCTCCAAAGCAGCCGGTGGCTACTACCGTGGCGCTGTCCGGTGGCACGTTT
GACCGCCTGCACAACGCCCCACAAGGTGTTGCTCAGTGTGCGGTGCATCCTGGCCCAGGAGCAGCTTGTGGTGGGA
GTAGCAGACAAAGATCTGTTGAAGAGCAAGTTGCTCCCTGAGCTGCTCCAACCTTATACAGAACGTGTGGAACAT
CTGAGTGAATTCTGGTGGACATCAAGCCCTCCTTGACTTTTGATGTCATCCCCCTGCTGGACCCCTATGGGCCC
GCTGGCTCTGACCCCTCCCTGGAGTTCCTGGTGGTGCAGCGAGGAGACCTATCGTGGGGGATGGCCATCAACCGC
TTCCGCCTTGAGAATGACCTGGAGGAACCTGCTTTGTACCAGATCCAGCTGCTGAAGGACCTCAGACATACGGAG
AATGAAGAGGACAAAGTCAGCTCCTCCAGCTTCCGCCAGCGAATGTTGGGGAACCTGCTTCGGCCTCCATATGAA
AGGCCAGAGCTCCCCACATGTCTCTATGTAATTGGGCTGACTGGCATCAGTGGCTCTGGGAAGAGCTCAATAGCT
CAGCGACTGAAGGGCTGGGGCGTTTGTGATTGACAGTGACCACCTGGGTGCATCGGGCTATGCCCCAGGTGGC
CCTGCCTACCAGCCTGTGGTGGAGGCCCTTTGGAACAGATATTCTCCATAAAGATGGCATCATCAACAGGAAGGTC
CTAGGCAGCCGGGTGTTTGGGAATAAGAAGCAGCTGAAGATACTCACGGACATTATGTGGCCAATTATCGCAAAG
CTGGCCCGAGAGGAGATGGATCGGGCTGTGGCTGAGGGAAAGCGTGTGTGTGTGATTGATGCCGCTGTGTGCTT
GAAGCCGGCTGGCAGAACCTGGTCCATGAGGTGTGGACTGCTGTGCATCCCAGAGACTGAGGCTGTAAGACGCATT
GTGGAGAGGGGATGGCCTCAGTGAAGCCGCGCTCAAAGCCGGCTGCAGAGCCAGATGAGCGGGCAGCAGCTTGTG
GAACAGAGCCACGTGGTGTCTCAGCACCTTGTGGGAGCCGCATATCACCCAACGCCAGGTGGAGAAAGCCTGGGCC
CTCTTGCAAGCGCATTCCCAAGACTCATCAGGCCCTCGACTGA

5268/6881
FIGURE 4860

MAVFRSGLLVLTTPLASLAPRLASILTSAARLVNHTLYVHLQPGMSLEGPAQPQSSPVQATFEVLDFITHLYAGA
DVHRHLDVRILLTNIRTKSTFLPPLPTSVQNLAHPPPEVVLDFQTLDGSQLNPNVKQQLVRYATSCYSCCPRLASV
LLYSDYGIGEVPEPLDVPLPSTIRPASPVAGSPKQPVRGYRGAVGGTFDRLHNAHKVLLSVACILAEQLVVG
VADKDLLKSKLLPELLQPYTERVEHLSEFLVDIKPSLTFDVIPLLDPYGPAGSDPSLEFLVSEETYRGGMAINR
FRLNDLEELALYQIQLLKDLRHTENEEDKVSSSSFRQRLGNLLRPPYERPELPTCLYVIGLTGISGSGKSSIA
QRLKGLGAFVIDSDHLGHRAYAPGGPAYQPVVEAFGTDILHKDGIINRKVLGSRVFGNKKQLKILTDIMWPIIAK
LAREEMDRAVAEGKRVVIDAAVLLEAGWQNLVHEVWTAVIPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLV
EQSHVVLSTLWEPHITQRQVEKAWALLQKRIPKTHQALD

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FIGURE 4861

CCTCGCCGCAAGGGGGCCCGCCCGCTGGCCCGTTTCCGGTCCGGTGGGTACAAGATGACGGAGCCGGGCGCCTCTC
CCGAGGACCCCTTGGGTCAAGGCAAGCCCCGTGGGCGCGCACGCCGCGAGGGGAGGGCGGGTTCGGGCTCGTGAC
GTAGGGGGGCGGGAAGACGAGGGGCTTCCCTCCTGTCCCCAAAGTCCCCACGCTCTCCGTGCCCGGGGCTGCA
GAGAAGACAGCTCTCACCCCGCTGTGCCAAGGTGGAGTATGCCTACAGCGACAACAGCCTGGACCCCGGGCTTT
TTGTAGAAAGCACCCGCAAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGGTTCCACCAGTGCCTCTTCTGTCC
CCAACACAGATGATGAGGACAGTGATTACCACCAGGAGGCCTACAAGGAGTCCTACAAAGACCGGCGCGGCGCG
CACACACTCAGGCTGAGCAGAAGAGGAGGGACGCCATCAAGAGAGGCTATGATGACCTTCAGACCATCGTCCCCA
CTTGCCAGCAGCAGGACTTCTCCATTGGCTCCCCAAAGCTCAGCAAAGCCATCGTTCTACAAAGACCATTGACT
ACATTTCAGTTTTTGCACAAGGAGAAGAAAAAGCAGGAGGAGGAGGTGTCCACGTTACGCAAGGATGTACCGCCC
TAAAGATCATGAAAGTGAACATATGAGCAGATTGTGAAGGCACACCAGGACAACCCCATGAAGGGGAGGACCAGG
TCTCTGACCAGGTCAAGTTCAACGTGTTTCAAGGCATCATGGATTCCCTGTTCCAGTCCCTCAATGCCTCCATCT
CAGTGGCCAGCTTCCAGGAGCTGTGAGCGTGTCTTTCAGCTGGATCGAGGAGCACTGTAAAGCCTCAGACCCTGC
GGGAGATTGTGATTGGCGTCTGACCAATTGAAAAACCAGCTTTACTGACCGGTTCTTGGAAACCTGGAGAACA
GCCAACAAGAGGCCCTTGAATCTCTACGTGGCCACTGAACTGCTGGGCGGGGAGACTGGACTACAACACCTCAC
ACTGGTCAGCTGGTTTTCTACTTGGTGTTTGGTTTTTCCAGCCCCATTTTATCTTCAGCGGAGCCGCGGTGTTTG
TTTTGTGAAAGCTTCTGATTAAATTAATTATATTGACGATAAACTCAAACCTACCCAGCCTTCCCCCACTCCAT
GGAAGTCCCTGGGATGGGCTGTGCTCTGGACACCCCAAAGAGCTCCTGCCCTCTCAGCCCTTTATTCAAGCCTC
AGATTTCTGCTCATGATCTACATAGATTTGGAAACTGTTTTCTCTGTTTTTGGTCTCTTGGGCAACATTTTTGGC
CCAAGTTTGGGCAACATTTGGCCCAAGTTTGGGCATTTTGGCAGTAGCTGTATGGGAGAAAAAGAGTAAGAGGAA
ATATTTCCACAGCCATGAAGGGTGAAAGGGCACCTTGTGCCTAGACTAGGGCTGCCTGGTCAGTCCAGGTGAGG
CCAAGGGCTTTCTGGCCATCTCAGGGAGGGGCCACCAGGTTCCCTCCCTCACCCCATATTCCATCACCTTCCTCC
TCTGCTCTGGGTGGTAAGGGAAGCCCTCCCGGTTCCACAGGCTATGATGCTGCATGGCAGAGGCAGGTATAACA
CAGCACTACATATTGAAATTTTTTATTTTTCTAAAAACCAATGCAGTTTTGCTACGGTTACAATTTTGAAATAT
TAACTGAGCCTCAAAATCACCTTTCTGTCAAGCATATCTTGGCCTCTCCATGTCTCAGTGTGCTGCATTTT
TCCAGGACTTGGGGGTGGGGTGAAAAGCGTACAAAAGATACTTAAAAGGGCTCCTGGGGTACACAAGCCCAGCA
GGTCTGAGTGAAGCCGTGGGCCCTCCAAATGCTCGTTTTATAGCAACCTCTCTCTACCCTAGTTCTCCAAATTC
ACTTCTGCCTTCCTCAGGTTTGATATCTGGCAGGTTTACTATCCAGAGGAAATTAATATTTTTATATAAAAT
AAATTATAATAAATATTGCCAAATGCTTTCCTTTAGCATTGTTCCAAGTCTAAATGTTAACCTCAAGCTACTGCA
ATTTAGACAAATGAAATGGGCTGGGTCTACCCCCAGCCACCAGCCCTCATCTCTCTACCCAGTGTCTGGTTTAT
GCTTGTCTCCTGACTGCTCTGCTTAAAGGTGAAAGTAGCAGGAACAACAACAAAGCCAACCAAAAAACAAGGTAG
CCAGTGCAAGACATCTCACTCTTCTGACATCCTGCAGTCCCCACCAGTCTGACCGTGGGCCCCCTCAGGGGTCTG
GGAGTGTGACGTTGTAATCTTCATCCGTCTCTATCCCAACTTCCTCTGTGAGACAGGGAGACAAGTGAATGAGA
TGTCACCAGGATAAGACCACAGGGAAGCAAAGAAGGAAGAGAGCTCCACTTACAAAGAAGTCTTCTTGCTCTTG
GGGTATCCTTCAAGTATTGCATCAGACAGCTCTGTAGCCTGACAAGAAATAAAACCACCCGTTTTTCAGATGGGCA
GCACTGGGCACTGCCTGTCTAGTTTATGATATTGTGT

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FIGURE 4862

MTEPGASPEDPWVKASPVGAHAGEGRAGRARARRGAGRRGASLLSPKSPTLSVPRGCREDSHPACAKVEYAYS
NSLDPGLFVESTRKGSVVS RANSIGSTSASSVPNTDDESDYHQEAYKESYKDRRRRAHTQAEQKRDAIKRGYD
DLQTIVPTCQQQDFSIGSQKLSKAIVLQKTIDYIQFLHKEKKKQEEEVSTLRKDVITALKIMKVNYEQIVKAHQDN
PHEGEDQVSDQVKFNVFQGIMDSLFSFNASISVASFQELSACVFSWIEEHCKPQTLREIVIGVLHQLKNQLY

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FIGURE 4863

CAACTACAACGTCCGGCTTTCTGAGTTGGGTGGCGGGAAGGCGATGAGTAAAGGCCGGGCAGAAGCTGCGGTAG
CCGCCGGGATCCTCCTGAGGTACCTGCAGGAGCAGAACCGGCCCTACAGCTCCCAGGATGTGTTTCGGGAACCTAC
AGCGGGAACACGGACTGGGCAAGGCGGTGGTGGTGAAGACGCTGGAGCAGCTGGCGCAACAAGGCAAGATCAAAG
AGAAGATGTACGGCAAGCAGAAGATCTATTTTGGGATCAGGACCAGTTTGACATGGTGAGTGATGCTGACCTTC
AAGTCCTAGATGGCAAAATCGTGGCCCTCACTGCTAAGGTGCAGAGCTTGCAGCAGAGCTGCCGCTACATGGAGG
CTGAGCTCAAGGAATTATCTAGTGCCCTGACCACACCAGAGATGCAGAAAGAAATCCAGGAGTTAAAGAAGGAAT
GCGCTGGCTACAGAGAGAGATTGAAGAACATTAAAGCAGCTACCAATCATGTGACTCCAGAAGAGAAAGAGCAGG
TGTACAGAGAGAGGCAGAAGTACTGTAAGGAGTGGAGGAAGAGGAAGAGGATGGCTACAGAGCTGTCTGATGCAA
TACTTGAAGGATACCCCAAGAGCAAGAAGCAGTTCTTTGAGGAAGTTGGGATAGAGACGGATGAAGATTACAACG
TCACACTCCCAGACCCCTGAGGGGCCCCACGGTCAGGACTGGTGGGACTGCAGGATGTCAGAAGAGTGAGATGTC
TTGCACTGGCTACCTTGTTTTTGGTTGGCTTTTTGTTGTTGTTTCTGCTACTTTACCTTTAAGCAGAGCAGTCAG
GAGACAAGCATAAACCAGAGCACTGGGTAGAGAGGATGAGGGCTGGTGGCTGGGGGTAGACCCAGCCCATTTTCAT
TGTCTAAATTGCAGTAGCTTGAGGTAAACATTTAGACTTGGAACAATGCTAAAGGAAAGCATTGCGCAATATTTA
TTATAATTTAATTTTATATAAAAAATATTTAATTTCTCTGGATAGTCAAACCTGCCAGATATCAAACCTGAGGAA
GGCAGAAGTGAATTTGGAGAACTAGGGTAGAGAGAGGTTGCTATAAAACGAGCATTGAGAGGGCCCCACGGCTTCA
CTCAGGACCTGCTGGGCTTGTTGTACCCAGGAGCCCTTTTAAGTATCTTTTGTACGCTTTTCACCCACCCCCAA
GTCCTGGGAGAAATGCAGGCAACACTGAGACATGGGAGAGGCCAAGATATGCTTGACAGAAAGGGTGATTTTGAG
GCTCAGTTAATATTTCAAATTTGTAACCGTAGCAAACTGCATTGGTATTTAGAAAAATAAAAAATTTCCA

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FIGURE 4864

GGGCGGACGGCACAGAGGGAGGGAGCGAGCGAGCAGTGAGTAAGCCAGCAAGGGCGGTTCGGGTCCCGAGGTCAGC
CGAGATTTCTCAGGTCCCTCCGGCCCCCTCCCTGGAGTCCACAGCGCCTCCGGTGTCAGAGGATCGGACACGGC
CCGGCCCCGGCCATGGCCTCGTTGCTGAAGGTGGATCAGGAAGTGAAGCTCAAGGTTGATTCTTTACGGGAGCGGA
TCACAAGTGAGGCAGAAAGACTTGGTGGCAAATTTTTCCCAAAGAAGTTATTAGAACTTGATAGTTTCTGAAGG
AACCAATCTTAAACATCCATGACCTAACTCAGATCCACTCTGACATGAATCTCCAGTCCCTGACCCCATTTCTTC
TCACCAATAGCCATGATGGACTGGATGGTCCCACTTATAAGAAGCGAAGGTTGGATGAGTGTGAAGAAGCCTTCC
AAGGAACCAAGGTGTTTGTGATGCCCAATGGGATGCTGAAAAGCAACCAGCAGCTGGTGGACATTATTGAGAAAG
TGAAACCTGAGATCCGGCTGTTGATTGAGAAATGTAACACGCCCTTCAGGCAAAGGTCCCTCATATATGTTTTGACC
TCCAGGTCAAATGTGGGTACAGCTCCTGATTCCAGGATGAAGATGGAACAACTTTGGGGTGTCCATTACAGG
AGGAAACAGTTGCAGAGCTAAGAAGTGTGAGAGTGAAGCTGCATCTTATCTGGACCAGATTTCTAGATATTATA
TTACAAGAGCCAAATTTGTTTCTAAATAGCTAAATATCCCATGTGGAGGACTATCGCCGCACCGTGACAGAGA
TTGATGAGAAAGAATATATCAGCCTTCGGCTCATCATATCAGAGCTGAGGAATCAATATGTCACCTTACATGACA
TGATCCTGAAAAATATCGAGAAGATCAAACGGCCCCGGAGCAGCAATGCAGAGACTCTGTACTGAGGCCAGGGCC
AGGGCCAGGGGACTCTGTGAGTCTGGCTCAAGACCGACATTGCCTTGGTTTGTACATGACTATCGTGATGGGGA
AACTGGCTGGAAATAGTAATCACACCTCTCTGTTTTTAGTTAGAGTCTAATGAACTCTCATCTAGTTCTGTGAT
GTGTTTACCTCTTTTTTTCAGGCCTCAGGAACCTCTCTATTTCTTCCCTAATACCCACACCCAACTGTCTGTA
TTTCTGGAGAACTCCAGGTTTGTGTGTGCAGGATGTTGGCACAAAAATACCTGTGTTTTTATTCTCCCCCTCTCT
CCCTCCTGTGICTTGGCCTTTATGTTTTCTCCGTTTGATAATTAGTTGGTTAAAAGCTGAGGGAACCGGAAGGA
AAGTGCTAGGTGTTTTTTAGGAAGTAGGGTGGCGGGGGACGAACCTCTCTTCCCTCACATGAGGTTACTGTTTCT
TTCTCTGTGGGGCATTGGATCCTCCCACAGTTGCCCTGGTGATGACTTAGGGCTTCCCATCTGTGTACATCCCA
CTTTGAATCTTGATCGTGACAAGAAATACCTTAGGCCTTCAGTCAATTCCGAAGCTCCTTCAGTTGTTTTTATAA
TGGGCGTTTTTCATGACACATATGTGTATGTCATGTATACGCCCATACAGACATGCACACACAGACTCCTACTCCA
TTAGCTAACATACCTCCTCTCCACAACCCCTGTACATACCTTTCCAGGAGGTGACAGTTGTCTTAGTTGTCTAT
CTACCCAGACAAACGTCCTGGGCCCGTCTCCCTCCTGATACTGTAGCCTCTTGGTACCCAGGGTGAGTTGGTGG
AGAACAGAGAGATGAGAAGCAGAGGGCTTGGGGAAAGCCTGTTCTCTCTGACTCAGCCCTTTTTGGCATTATTG
CAAGAGCTTGACTCCTGGTTGCCTTTTCCAGCCAGTTTTCAGTTGGGGTGAAGGTTTCTGCAAGTGTGAGGTCC
AGATGCTGCTGCTCATGTTGGGCTTTCCTTTTGGGAAGTATTTCTCTTTATTTATAGTGTGGGCTTCCGGGGAA
AGCAATCATTGGTGTGTATGTGTATGTGCATGCACACAGTGCATATACACATTGTGTATGTGGAAATGTGCTG
GGCAAGTCAAAACTATAGAAGAGTTGCCTCCTGTCTCTCGAATCTTCCAGAGATATCACTTAATTGTAAACAGCT
TTTGTGTTAATCCCTTCAGCCCTAGCTCTTTTATTCTACCACGGCTGGAGAGTTGATACCTGCAGTCAGCCTG
CCAGTGACTCTTAGTGTCTGTTTCTGACTTATTTTTCTGTCTCTGTCTTCCAACCCCCAATAATATTTCCACCG
GGGATGCATCATTTTTTACTCCCAATATTCTGTAGAGAGGGAGTCAGGATGCTGTCTTCCCACGAATAGTACTCAG
TAACAAACCAATTGCATTTTAGTTGGGCAGTGTCTCCACCCACCCTCCAGATCCCTTCCAGCTAAAACCTTCCC
CCTTCCCTCCATGTGTTTCTCAGTTTCCCGTTTCGTTTGTGGACTGTTCCACTGCCCCCTCCTCCTCACCTATC
ACCCATGGATCGTAATGTAAAATTCTTTTACCATGTCAAGAAATTATTAATAACAGGTACTTTGACCTCTTTC
TAAAGCCGCAGACCCTGGTGCAATGCTCTGGTGGCTAGGGATGTACTCATGCTCATATGTGTGCACGCTTGGACA
CCCACCTCCATGGACACCTAGCCACCCTGTTGTGTGCTTATGCCAGTTGAGCTGAATCTTTTCCCAGTATAG
TGGAAGACTGAGGCTTCTGCCTACTGAGCAAGGTTGGGTGCTTCATTTGTGTTGAGTCTGAATTATGGGAAAGT
TAGCTCTTCCAGACCTAAGCTGCCTTCTCTCCCTACTTTTCAG

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FIGURE 4865

GCTGAAGACAGAGCGATGGTAGTTCTGGAGGCCTCGCTCCGGGGCCGACCCGAGGCCACAGTGCCTCCGCGGTAG
ACCGGACTTGGGTGACGGGCTCCGGGCTCCCGAGGTGAAGAGCATCGGGGGCTGAGGGATGGAAGGGTCTAAGAC
GTCCAACAACAGCACCATGCAGGTGAGCTTCGTGTGCCAGCGCTGCAGCCAGCCCTGAAACTGGACACGAGTTT
CAAGATCCTGGACCGTGTACCATCCAGGAACTCACAGCTCCATTACTTACCACAGCCCAGGCGAAACCAGGAGA
GACCCAGGAGGAAGAGACTAACTCAGGAGAGGAGCCATTTATTGAAACTCCTCGCCAGGATGGTGTCTCTCGCAG
ATTCATCCCCCAGCCAGGATGATGTCCACAGAAAGTGCCAACAGCTTCACTCTGATTGGGGAGGCATCTGATGG
CGGCACCATGGAGAACCTCAGCCGAAGACTGAAGGTCACTGGGGACCTTTTTGACATCATGTCCGGCCAGACAGA
TGTGGATCACCCACTCTGTGAGGAATGCACAGATACTCTTTTAGACCAGCTGGACACTCAGCTCAACGCTCACTGA
AAATGAGTGTGAGAACTACAAACGCTGTTTGGAGATCTTAGAGCAAATGAATGAGGATGACAGTGAACAGTTACA
GATGGAGCTAAAGGAGCTGGCACTAGAGGAGGAGAGGCTGATCCAGGAGCTGGAAGACGTGGAAAAGAACCGCAA
GATAGTGGCAGAAAATCTCGAGAAGGTCCAGGCTGAGGCTGAGAGACTGGATCAGGAGGAAGCTCAGTATCAGAG
AGAATACAGTGAATTTAAACGACAGCAGCTGGAGCTGGATGAGCTGAAGAGTGTGAAAACAGATGCGTTA
TGCCAGAGCGCAGCTGGATAAGCTGAAGAAAACCAACGCTTTAATGCAACCTTCCACATCTGGCACAGTGGACA
GTTTGGCACAATCAATAACTTCAGGCTGGGTGCGCTGCCAGTGTTCCTGGAATGGAATGAGATTAATGCTGC
TTGGGGCCAGACTGTGTGCTGCTCCATGCTCTGGCCAATAAGATGGGTCTGAAATTTAGAGATACCGACTTGT
TCCTTACGGAAACCATTATATCTGGAGTCTCTGACAGACAAATCTAAGGAGCTGCCGTTATACTGTTCTGGGGG
GTTGCGGTTTTTCTGGGACAACAAGTTTGACCATGCAATGGTGGCTTTCCCTGGACTGTGTGCAGCAGTTCAAAGA
AGAGGTTGAGAAAGGCGAGACACGTTTTTGTCTTCCCTACAGGATGGATGTGGAGAAAGGCAAGATTGAAGACAC
AGGAGGCAGTGGCGGCTCCTATTCCATCAAAACCCAGTTAACTCTGAGGAGCAGTGGACAAAAGCTCTCAAGTT
CATGCTGACGAATCTTAAGTGGGGTCTTGCTTGGGTGTCTCACAAATTTATAACAAATGACTTTTTTCTTAGG
GGGAGGTTTGCTTAAAGGCTTTTAATTTGTTTTGTTTGCAAACATGTTTTAAATTAATTCGGGTAATATTAA
ACAGTACATGTTTACAATAACAAAAAGAAAAATCCACAAAAGCCACTTTATTTTAAATATCATGTGACAGAT
ACTTTCAGAGCTACAACATGCCATCTATAGTTGCCAGCCCTGGTCAGTTTTGATTCTTAACCCCATGGACTCCT
TTCCCTTTCTTCTCTGAAAAAACTAATTTAAATTTGCTTTTCTTTTTTTAACTGAGTTGAATTGAGATTGATG
TGTTTTCACTGGATTTTTATCTCTCTCAACTTCTGCACTTAACAATATGAAATAGAACTTTTGTCTTTACTGA
GATGAGGATATGTTTGAAGATGCACAGTTGGATAATGTGGGAAAATGACATCTAAGCTTTACCTGGTCACCATGTG
ATGTGATCAGATGCTTGAAATTTAACACTTTTCACTTGGTTCTTATACTGAATGCCGACTCTGCTCTGTGTTAGA
GATATGAAATGGTGTGTTGATACTGTTTGAGACATTATGGAGAGATTTAATTATTTGTAATAAAAGATTGTGCA
GTCTGAAACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4866

MEGSKTSNNSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGETQEEETNSGEEFFIETPRO
DGVSRRFIPPARMMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLFDIMSGQTDVDHPLCEECDTLLDQLDT
QLNVTENECQNYKRCLEILEQMNEDDSEQLMELKELALEEERLIQELEDVEKNRKIVAENLEKVQAEAERLDQE
EAQYQREYSEFKRQQLDDELKSVENQMRYAQTQLDKLKTNVFNATFHIWHSQGFGTINNFRGLRPSVPVEW
NEINAAWGQTVLLLHALANKMGLKFQRYRLVPYGNHSYLESLTDKSKELPLYCSGGLRFFWDNKFHAMVAFLDC
VQQFKEEVEKGETRFCLPYRMDVEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLKWGLAWVSSQFYNK

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FIGURE 4867

TTGGAGGTCCCCCTCCCCACTAAGTGCCTCTTTGCATAGCACCAGTCCCCACCCGCACGCTCTCTGGACCACTAC
AGCTGGACGGGCAATGGCGGGTCGGGGAGGCGCAGCAGACCCAATGGACCAGCTGCTGGGAACAAGATCTGTCA
ATTTAAGCTGGTTCTGCTGGGGGAGTCTGCGGTAGGCAAATCCAGCCTCGTCCTCCGCTTTGTCAAGGGACAGTT
TCACGAGTACCAGGAGAGCACAATTGGAGCGGCCTTCCTCACACAGACTGTCTGCCTGGATGACACAACAGTCAA
GTTTGAGATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCATGTACTATCGGGGGGGCCAGGC
TGCCATCGTGGTCTATGACATCACCAACACAGATACATTTGCACGGGCCAAGAAGTGGGTGAAGGAGCTACAGAG
GCAGGCCAGCCCCAACATCGTCATTGCACTCGCGGGTAACAAGGCAGACCTGGCCAGCAAGAGAGCCGTGGAATT
CCAGGAAGCACAAAGCCTATGCAGACGACAACAGTTTGCTGTTTCATGGAGACATCAGCAAAGACTGCAATGAACGT
GAACGAAATCTTCATGGCAATAGCTAAGAAGCTTCCCAAGAACGAGCCCCAGAATGCAACTGGTGCTCCAGGCCG
AAACCGAGGTGTGGACCTCCAGGAGAAACAACCCAGCCAGCCGGAGCCAGTGCTGCAGCAACTGAGCCCCCTTGC
CTGCCCCGCTGCCCCCGCCTCCTCCGCTGAATGACCCGACTGGAATCCACTCTAACCAATCGCACTTAACGACTC
GGGCCACCACTGGGGGGGAGGGGGAGGGGTCCACCATGATTTCTCCATATAATTTTGATCATAGGCCGGAGTGA
GTCATTCCACCTGCACCTTTCTGTACAAATACTAATTCAATTTTAAGTCTTAAGTCACTTTTTTAATATATATGA
TCTTCTGCTCTTCCCACTTCCTCCCTTTCTACTGCTCTCCCATTTTCCCTTGCTGGGAGTAGCCACATGCTCTT
GCCCCCAACCTTGTATATGGGGACAGTGGGGTCAGTGCAGCTACCCTTTCTTTCCCTCCTGCGGAACAGCGGA
CCCAGCAAGAGCATCCACATCCTCACTTTGTTCCGAGTGGTCTTTGGTTTGGGCGGTGGGGCAGACCTTGGGAAG
GGGCTTAGGAAGGGAGAGGCAGCTCTTCCTTCAGCTGGCTCTCATCAGGCTGCAGCCCCCTCCCGCTCCACCT
CCCTGCTGGGAAACCACAGCATTATCACAGCATTATTGTGACAGCCACGAACCCATTGCCACAACCCCTCCACC
CTCGGTACCCCCAACCTCTGGCTCTGAGCCCTGTTCTGACCAAATCATGATGATGAGTATTTGGGGTGGGTGGG
TAAGGGGGGAGTGGGAGGGGACGGAACCAACTTTTTCTGTATTTTGTATTGTATGTTTCTTCAACATGTAACC
AATCAGTATCTTGTCAATATAGTCAGCCGATCGATCGACCTC

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FIGURE 4868

MAGRGGGAARPNGPAAGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEYQESTIGAAFLTQTVCLDDTTVKFEIW
DTAGQERYHSLAPMYRGAQAIVVYDITNIDTFARAKNWKELQROASPNIVIALAGNKADLASKRAVEFQEAQ
AYADDNSLLFMETSAKTAMNVNEIFMAIAKKLPKNPQNATGAPGRNRGVDLQENNPASRSQCCSN

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FIGURE 4869

CCGCTCTCCGCTGCGGGGGAGGCCATGGCGGAACCTTCCCAGGCCCGACCCGGGCCCCGGCTGC⁶CAGCCCCGG
CCCCCTCAGTCCCCAGCCCCCTGCCCCAACTCCGACTCCTGCACCCAGCCCGGCTTCAGCCCCGATTCCGACTCCC
ACCCCGGCACCCAGCCCCCTGCCCCAGCTGCAGCCCCAGCCGGCAGCACAGGGACTGGGGGGCCCCGGGTAGGAAGT
GGGGGGGGCCGGGAGCGGGGGGATCCGGCTCGACCTGGCCTGAGCCAGCAGCAGCGCGCCAGTCAGAGGAAGGCG
CAAGTCCGGGGGCTGCGCGCGCCAAGAAGCTTGAGAAGCTAGGGGTCTTCTCGGCTTGCAAGGCCAATGAAACC
TGTAAGTGTAATGGCTGGAAAAACCCCAAGCCCCCACTGCACCCCGCATGGATCTGCAGCAGCCAGCTGCCAAC
CTGAGTGAGCTGTGCCGAGTTGTGAGCACCCCTTGGCTGACCACGTATCCCACTTGGAGAATGTGTGAGAGGAT
GAGATAAACCCGACTGCTGGGGATGGTGGTGGATGTGGAGAATCTCTTCATGTCTGTTTACAAGGAAGAGGACACA
GACACCAAGCAGGTCTATTTCTACCTCTTCAAGCTACTGCGGAAATGCATCCTGCAGATGACCCGGCCTGTGGTG
GAGGGGTCCCTGGGCAGCCCTCCATTTGAGAAACCTAATATTGAGCAGGGTGTGCTGAACTTTGTGCACTACAAG
TTTAGTCACTTGGCTCCCGGGAGCGGCAGACGATGTTTCAGGCTCTCAAAGATGTTCTTGCTCTGCCTTAACCTAC
TGGAAGCTTGAGACACCTGCCAGTTTCGGCAGAGGTCTCAGGCTGAGGACGTGGCTACCTACAAGGTCAATTAC
ACCAGATGGCTCTGTTACTGCCACGTGCCCCAGAGCTGTGATAGCCTCCCCCGCTACGAAACCCTCATGTCTTT
GGGCGAAGCCTTCTCCGGTCCATTTTACCCTTACCCGCGGCAGCTGCTGGAAAAGTTCCGAGTGGAGAAGGAC
AAATTGGTGCCCCGAGAAGAGGACCCCTCATCTCACTCACTTCCCCAAATTCTGTCCATGCTGGAGGAGGAGATC
TATGGGGCAAACCTCTCCAATCTGGGAGTCAGGCTTACCATGCCACCCTCAGAGGGGACACAGCTGGTTCCCCGG
CCAGCTTCAGTCAGTCAGTCAGCGGTTGTTCACAGCACCCCCATCTTCAGCCCCAGCATGGGTGGGGGCAGCAACAGC
TCCCTGAGTCTGGATTCTGCAGGGGCCGAGCCTATGCCAGGCGAGAAGAGGACGCTCCAGAGAACCTGACCCCTG
GAGGATGCCAAGCGGCTCCGTGTGATGGGTGACATCCCCATGGAGCTGGTCAATGAGGTGATGCTGACCATCACT
GACCCTGTGCCATGCTGGGGCTGAGACGAGCCTGCTTTCGGCCAATGCGGCCCGGGATGAGACAGCCCGCCTG
GAGGAGCGCCGCGGCATCATCGAGTTCCATGTGATCGGCAACTCACTGACGCCCCAAGGCCAACCGCGGGTGTG
CTGTGGCTCGTGGGGCTGCAGAAATGTCTTTTCCACCAGCTGCCGCGCATGCCCTAAGGAGTATATGCCCGCCTC
GTCTTTGACCCGAAGCACAAGACTCTGGCCTTGATCAAGGATGGGCGGGTCATCGGTGGCATCTGCTTCCGCATG
TTTCCACCAGGGCTTCACGGAGAATTGTCTTCTGTGCTGTACCTCGAATGAGCAGGTCAAGGGTTATGGGACC
CACCTGATGAACCACCTGAAGGAGTATCACATCAAGCACAACATTCTCTACTTCTCACCTACGCCGACGAGTAC
GCCATCGGCTACTTCAAAAAGCAGGGTTTCTCCAAGGACATCAAGGTGCCAAGAGCCGCTACCTGGGCTACATC
AAGGACTACGAGGGAGCGACGCTGATGGAGTGTGAGCTGAATCCCCGCATCCCCTACACGGAGCTGTCCCACATC
ATCAAGAAGCAGAAAGAGATCATCAAGAAGCTGATTGAGCGCAACAGGCCAGATCCGCAAGGTCTACCCGGGG
CTCAGCTGCTTCAAGGAGGGCGTGAGGCAGATCCCTGTGGAGAGCGTTCTTGGCATTGAGAGACAGGCTGGAAG
CCATTGGGGAAGGAGAAGGGGAAGGAGCTGAAGGACCCGACCAGCTCTACACAACCCTCAAAAACCTGCTGGCC
CAAATCAAGTCTCACCCAGTGCCTGGCCCTTCATGGAGCCTGTGAAGAAGTCGGAGGCCCCCTGACTACTACGAG
GTCATCCGCTTCCCCATTGACCTGAAGACCATGACTGAGCGGCTGCGAAGCCGCTACTACGTGACCCGGAAGCTC
TTTGTGGCCGACCTGCAGCGGGTCATCGCCAACGTGCGGAGTACAACCCCCCGACAGCGAGTACTGCCGCTGT
GCCAGCGCCCTGGAGAAGTTCTTCTACTTCAAGCTCAAGGAGGGAGGCCTCATTGACAAGTAGGCCCCTCTTTGG
GCCGACGCCCTGACCTGGAATGTCTCCACCTCGGATTCTGATCTGATCTTAGGGGGTGCCTTGCCCCACGGAC
CCGACTCAGCTTGAGACACTCCAGCCAAGGTCTCCGGACCCGATCCTGCAGCTCTTCTGGACCTTCAGGCAC
CCCCAAGCGTGACGCTCTGTCCAGCCTTCACTGTGTGAGAGGTCTCCTGGGTGGGGCCAGCCCTCTAGA
GTAGCTGGTGGCCAGGGATGAACCTTGCCAGCCGTGGTGGCCCCAGGCCTGGTCCCCAAGAGCTTTGGAGGCT
TGGATTCTGGGCCTGGCCAGGTGGCTGTTTCCCTGAGGACCAGAAGTCTCATTTTAGCTTGAGTGTGCTT
CAGGGGTGGAAGTTTCAAGCCAACTGAAGGGGGCCATGCCTTGTCCAGCACTGTTCTGTGAGTCTCCCCAGGG
GTGGGGGGTATGGGGACCATTCAATCCCTGGCATTAAATCCCTTAGAGGGAATAATAAGCTTTTTATTCTCTG

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FIGURE 4870

MAEPSQAPTAPAPAAQPRPLQSPAPAPTPTPAPSPASAPIPTPTPAPAPAPAAAPAGSTGTGGPGVGSGGAGSGGD
PARPGLSQQRASQRKAQVRGLPRAKKEKLGVSACKANETCKCNGWKNPKPPTAPRMDLQQPAANLSELCRSC
EHPLADHVSHLENVSEDEINRLLGMVVDVENLFMSVHKEEDTDTKQVYFYLFKLLRKCILQMTRPVVEGSLGSP
FEKPNIEQGVLNFBVQYKFSLAPRERQTMFELSKMFLCLNYWKLETPAQFRQSQAEDVATYKVNYTRWLCYCH
VPQSCDSLPRYETTHVFGRLRSIFTVTRRQLLEKFRVEKDKLVPEKRTLILTHFPKFLSMLEEEIYGANSPIW
ESGFTMPPEGTQLVPRPASVSAAVVPSTPIFSPSMGGGSNSLSLDSAGAEPMPGEKRTLPLENTLEDARLRV
MGDIPMELVNEVMLTITDPAAMLGPETSLLSANAARDETARLEERRGIIIEFHVIGNSLTPKANRRVLLWLVLQ
VFSHQLPRMPKEYIARLVFDPKHKTALIKDGRVIGGICFRMEPTQGFTEIVFCAVTSNEQVKGYGTHLMNHLKE
YHIKHNILYFLTYADEYAIGYFKKQGFSDIKVPKSRYLGYIKDYEGATLMECELNPRIPYTELSHIKKQKEII
KKLIERKQAQIRKVYPGLSCFKEGVRQIPVESVPGIRETGWKPLGKEKGKELKDPDQLYTTLKNLLAQIKSHPSA
WPFMEPVKKSEAPDYEVIRFPIDLKTMTERLRSRYVTRKLFVADLQRVIANCREYNPPDSEYCRCASALEKFF
YFKLKEGLIDK

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FIGURE 4871

GGCACGAGGCGCGAGCTCGGAGGGCCCGGCTGGTGCTGCGGGGGCCCCGGGAGGTTGAAAAC TAAGCATGGGGAA
GAGCTGCAAGGTGGTCGTGTGTGGCCAGGCGTCTGTGGGCAAAACTTCAATCCTGGAGCAGCTTCTGTATGGGAA
CCATGTAGTGGGTTTCGGAGATGATCGAGACGCAGGAGGACATCTACGTGGGCTCCATTGAGACAGACCGGGGGT
GCGAGAGCAGGTGCGTTTTCTATGACACCCGGGGGCTCCGAGATGGGGCCGAAGTGCCCCGACACTGCTTCTCTTG
CACTGATGGCTACGTCTGTCTATAGCACAGATAGCAGAGAGTCTTTTCAGCGTGTGGAGCTGCTCAAGAAGGA
GATTGACAAATCCAAGGACAAGAAGGAGGTACCATCGTGGTCTTGGCAACAAGTGTGACTTACAGGAGCAGCG
GCGTGTAGACCCAGATGTGGCTCAGCACTGGGCCAAGTCAGAGAAGGTGAAGCTGTGGGAGGTGTAGTGGCGGA
CCGGCGCTCCCTCCTGGAGCCCTTTGTCTACTTGGCCAGCAAGATGACGCAACCCAGAGCAAGTCTGCCTTCCC
CCTCAGCCGGAAGAACAAGGGCAGCGGCTCCTTGGATGGCTGAAGAGCTGCCGTTCTCTTTCACGATCCCAGCC
CCATTTTCAGTGTCTGGGGCTCTGGTAGATGTGTTGAGGGCAAAGTAGAGGACAAGCTGTCTTTCCAGTCAGCCA
GGGAGCTCCCCGCCAGGCCACGCCCCAGCCACTTTGCTCCCTCTCACCTCTGGGAAGTGCAAATACTCTTGGTTG
ACATCCCCCTTCTCAGCCCTCCCAGCCTACTCCCCATCCCAGCTTTTAGAGGATCTGCTCCACTGTCTCCTGGGG
CAGTTGTGGGTCACTGTCCCTTCCAGCTGCCCCAGACAGGAAGCAGAGTCACCACGCAGCAGTGTCCCTTCTTGG
GTCTGAGTTCTATTATAGGTAGGGGCCCCACCTCTGGGCTTCCCATCAGCGACACACACACTTATGGCACC
AGCCTGGACTCCAGAAAAGGGTGTCCAGGTATTGTGTGTATGCATTTAGTTGTGCACACACAAATATGCTCCTA
TACTGGCATTAGGCGTCTCCTCATCCCTCACCTGACCTTTCTCCTGTCCTTTTCTTGGCTGGAAGAAGTTGGCC
TCCTGGGAGTGTAGTTTTCTGTTTTAAATCCCCCACCCCTGGCTGGGCTCAGTGGCTCACCCCTGTAATCCCAGC
ACTTTGGGAGGCCAAGGCGGGTCGATTACTTGAGGTGAGGAGTTCACGACCAGCCTGGCCAACATTGTGAAACCC
CATCTCTGCCAAAAATACAAAAGTTAGCCGGGCGTAGTGGCACATGCCTGTAATCCCAGCTACCCGGGGAGGCTG
AGGCAGGAGAATTGCTTGAAGTCTAGAAGGCGGAGGCTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGG
TCAACAGAGCAAGACTCCATCTCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 4872

MGKSCKVVVCGQASVGKTSILEQLLYGNHVVGSEMIETQEDIYVGSJETDRGVREQVRFYDTRGLRDGAELPRHC
FSC TDGYVLVYSTDSRESFORVELLKKEIDKSKDKKEVTIVVLGNKCDLQEQRVDPDVAQHWAKSEKVKLWEVS
VADRRSLLEPFVYLASKMTQPQSKSAFPLSRKNKGSGSLDG

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FIGURE 4873

GGGAAGATGGCGGCTGTCGAAGCGGCTGCAGAGCCGGTAACGGTGGTGGCGGCTGTTGGGCCAAAGGCGAAAGAC
GAAGAGGAGGAGGAAGAGGAGCCGCTGCCACCGTGCAGAGCGGTGCGCTGGGCCCCAGTGGGGGCGGTGGCGGAG
GCCCCGGCCTGGGGCAACCGCGTTTTTAGAAGAGGCGACGGCCGAGGAGCCTGGCGCGGCCCGGGCTCCCCCGCG
GATTGCGCGGGCGGACGCTGCGGCGGCTGCGGGCAGAGCGGCGCGGCTGGACTCGGCGCTGCTGGCGCTGTCC
TCGCACCTTCGCGCAGGTGCAGTTCCGCCTGCGCCAGGTGGTGC GCGGGGCGCCGGCGGAGCAGCAGCGCTTCTG
CGGGAGCTCGAAGACTTCGCCTTCCGCGGCTGCCCTCACGTCTAGGTTACGAAGGGCCCCGGCAGCCCCGCCAGC
GATGAGGGCGATGGGCTGCCAGGGGACCGCCATGGTTGCGGGGCGAGGACCAGAGTGAGCAGGAAAAGCAAGAG
CGTCTGGAACCCAAAGGGAGAAGCAGAAAGAACTGATACTGCAGCTCAAGACCCAGCTAGATGACCTGGAACG
TTTGCCTATCAAGAGGGCAGTTATGACTCGCTGCCACAGTCCGTGGTGTGGAAAGACAGCGGTGATCATAGAT
GAGTTAATAAGAACTGGACATGAATCTGAATGAGGACATCAGTTCCCTGTCCACTGAAGAGCTTCGTACGCGT
GTAGATGCAGCAGTGGCTCAGATCGTCAACCCAGCCGAGTCAAAGAACAGTTGGTTGAGCAACTGAAACTCAG
ATCCGAGACCTTGAGATGTTTTATCAACTTCATCCAAGATGAAGTGGGAAGCCCCCTTGACAGCAGGTGGTGGACAC
TGTGAGTGCAAGGCCGGTGGGAAGACAGGAAATGGCTGCAGCAGAACAGGCAGCAGCAGAACGCCTCCAGGAAAC
AGCAAAACAAAGGCAGAGGATGTGAAGAAAGTCCGGGAGACGGGGCTGCACCTGATGCGGCGAGCGCTGGCCGTG
CTCCAGATCTTTGCTGTTAGCCAGTTTGGTTGTGCCACAGGCCAGATCCCTCCAACCTGTGGCAGAGGGTCCAG
GCTGACAGAGACTACTCTCCCTTGTGTAAGAGGCTGGAGGTGTGAGTGGACAGAGTGAAGCAGCTAGCCTTGAGG
CAGCAGCCACATGACCATGTCTACCTCTGCCAACCTCCAGGACCTCTCTCTGGGAGGCAAGGATGAGCTGACT
ATGGCTGTGCGGAAGGAGCTAACGGTGGCTGTGAGGGACCTGCTGGCCCATGGACTGTATGCCTCCTCCCCAGGG
ATGAGCCTTGTTATGGCTCCTATTGCTTGTGTTGCTGCCAGCCTTCTCCTCGGCCCCAGAGGCCATGCACCCGTGG
GAGCTCTTTGTAAAGTACTACCATGCTAAGAACGGCCGTGCTTATGTGGAATCCCCAGCCCGGAAGCTCTCCAG
TCCTTCGCCCTTCCTGTTACGGGAGGCACTGTTGTACCCCCAAACAGAGCCTACTGACAGCCATCCACATGGTG
CTGACAGAGCATGACCTTTTTAAGCGCAGTGCACTCAGAATTGAAGGCCTTGGTGTGCATGGCACTGAATGAG
CAGCGTCTGGTGTCTGGGTGAACCTCATCTGCAAGTCCGGGTCACTCATCGAGCCTCACTACCAGCCCTGGAGC
TACATGGCACACACAGGCTTTGAGAGTGCCCTCAACCTGCTCAGTCGCCTCAGCAGCCTCAAGTTTAGCCTCCCT
GTAGATCTGGCTGTGCGCCAGCTCAAAAACATCAAAGATGCCTTTTCATGAGAGTGCCCTAACCCAGACAAGCT
CCTTGTTTCAGTAGGGATAGATGTGCTAGTCTTCTAGCATAGGAGCAAGGAATCAGAGGTGGGGTTAAAGGCATTT
TTCCAGACCCTGCTCAGGCAGTCGGCCAAATGAGTGCAAAGTCTGTTTTCCCCACCAACTTAGCTCTCGGAAAG
ATGTGCTGGAGGGACCTCTTGTAAAGAAGGTTCTGCCAGGCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCCGAGGCGGGCGGATCACAAGGTCAGGAGTTCGAGACCATCCTGTCTAACACGGTGAAACCCCAT
CTCTACTAAAAATACAAAAAATTAGTCGGACATGGTGGCAGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAG
GCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCTGGGC
GACAGAGTGAGACTCCGTCTC

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FIGURE 4874

MAAVEAAAEPVTVVAAVGP KAKDEEEEEEEFLPPCEAVRWAPVGAVAEARPGATAFLEEATAEEPGAAPGSPDPS
PGRTLRRRLRAERRRLDSALLALSSHFAQVQFRLRQVVRGAPAEQQORLLRELEDFAFRGCPHVLGYEGPGDPASDE
GDGLPGDRPWLRGEDQSEQEKQERLETQREKQKELILQLKTQLDDLETFAYQEGSYDSL PQSVVLERQ RVIIDEL
IKKLD MNLNEDISSLSTEELRQRVDAAVAQIVNPARVKEQLVEQLKTQIRDLEMFINFIQDEVGSPLQTGGGHCE
CKAGGKTGNCGSRTGSSRTPPGNSKTKAEDVKKVRETGLHLMRRALAVLQIFAVSQFGCATGQIPPTLWQRVQAD
RDYSPLLKRLEVSVDRVKQLALRQOPHDHVITSANLQDLSLGGKDELTMAVRKELTVAVRDLLAHGLYASSPGMS
LVMAPIACLLPAFSSAPEAMHPWELFVKYYHAKNGRAYVES PARKLSQS FALPVTGGTVVTPKQSLLTAIHMLT
EHDPFKRSADSELKALVCMALNEQRLVSWNLICKSGSLIEPHYQPWSYMAHTGFESALNLLSRLSSLKFSLPVD
LAVRQLKNIKDAF

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FIGURE 4875

CTTCCCCAGCTGTGCACTCTCCATCCAGCTGTGCGCTCTCGTCGGGAGTCCCAGCCATGTCGACGAGAGAGAGG
TAGCCGAGGCAGCGACCGGGGAAGACGCCTCTTCGCCGCTCCGAAAACCGAGGCAGCGAGCGACCCCCAGCATC
CCGCGGCCCTCCGAAGGGGCCGCCGCCGCCGCTCGCCGCCACTGCTGCGCTGCCTAGTGCTCACC GGCTTTG
GAGGCTACGACAAGGTGAAGCTGCAGAGCCGGCCGGCAGCGCCCCCGGCCCTGGGCCCGGCCAGCTGACGCTGC
GTCTGCGGGCCTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCTCTGC
CTGTCACTCCGGGCATGGAGGGCGCGGGTGTGTGATCGCAGTGGGCGAGGGAGTCAGCGACCGCAAGGCAGGAG
ACCGGGTGATGGTGTGAACCGGTCAGGGATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCTCTGA
TTCCTGAGGCCATGACCTTTGAGGAAGCTGCTGCCTTGTCTCGTCAATTACATTACAGCCTACATGGTCTCTTTG
ACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGGTGTGGGTATGGCTGCCGTGC
AGCTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACGGCCTCGGCCAGCAAGCAGGAGGCACTGAAGGAGA
ATGGGGTCACACATCCCATCGACTATCACACGACTGACTACGTGGATGAGATCAAGAAGATTTCCCTAAAGGAG
TGGACATTGTGATGGACCTCTGGGTGGGTGAGATACTGCCAAGGGCTACAACCTCCTGAAACCCATGGGCAAAG
TCGTACCTATGGAATGGCCAACTGCTGACGGGGCCCAAACGGAACTGATGGCCCTGGCCCGGACATGGTGGAA
ATCAGTTACAGCGTGACAGCTCTGCAGCTGCTGCAGGCCAACCGGGCTGTGTGTGGCTTCCACCTGGGTACCTGG
ATGGTGAGGTGGAGCTGGTCAGTGGTGTGGTGGCCCGCTCCTGGCTCTGTACAACAGGGGCCACATCAAGCCCC
ACATTGACTCAGTCTGGCCCTTCGAGAAGGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTGGGCA
AGGTCTCTCGTTCCAGGGCCAGAGAAGGAGAACTAGGGCAAGTGGCTGTGAGACCTAGAGACCAGCGAAGGG
AGAAGTTGGGAAGCTACGTTCTGTGGCCACCAGACTGCAATTCAGCCTCTGTCTATAATGCTCTGCCCTCCCTC
CCCCGAAGTTCTCTGTGGTGTGACCGCTCTCCCTGCCCTCCCGCTTCTGTACCTCTGAAGAGGTTGGGAAG
TGACCATTGGATGTCTGGGCCCTGCCAAGGCGACAGGGAGGGTCAGAGGGAGGCCGGCTGCTTCTGCCCCAC
CCTTTCCCGGGCCTGCTGTGCTGCTTTGTGCCAAGGTTAGCCAGTCCCCCTGTTGTGTTCATGTGCTTTCA
CCTCTGCCTCATCTTTCTCCCTGCCCTGCCCGCCACCTCCCCAAAGAATTGAAACGTCAGCTCAGGATATGGG
GCCAATCTCTGTGAGTCCAGCATGTACCTGTCTCTCCCTAGTGTCCCTCAGCCTGGGTGACCAAGTGGCCGCT
CTGGGCTTGACCAGTTCCCAATCTCGTCCTCTGTCCCAACTTCTTAAGCACAATTGGGCTTCTTCCATCTCCAG
GTTTTCTGCCATTCTTAACCAAGGCTGCCTCTTCCAACAGGGCGGGAATCAGACCTACTCCCTAGGTCACAACT
CTGGGAAGGATACAGAGCCCCACCTTCACTGAGTCTCTGGATTGTCTCAGTGCCTTAGCAACGAAAACCT
GTGCTTGTGTGTGTGGCGGGGAGGGAGGATCCTGTTTCCACCTCCTTCTCCTCCCTGTACTCCCCAGT
GCCTTCTTGTCTGGTGGAGCTGGGGTTTCTCTCTCCCACTGCCACAACACTGCCAAAAATCTGTGTATGTG
CCATTGGGTGGGCAGCCCCAAGCCTCCTGGGGAGGCAGGGCAAAAACAGGTGCCCTCATCGTGGTCTGTGCCAT
GTCCCGTCTCTATGGTGGTTGAGGAGAAAGCGGGGAAGCTTCTCAGCCTTGCAATATGTGTGGCATTACTA
GCCAGAGCTCTGAAAGGCAGTGTGTGTGTTTCTGTACTGGGACCAAAGTAAAAATCCAAGCACATTCCCTTG
CAGTTAGGGGAGGCCCTACTGCCTTCTCAAAGCAGAGAGGCAGCTTATCAAACCTAGCCCAAACTCTGTTTACA
TGGGTGGGGAGATGGAGCAGGGAAGTACAGAGTGGGATGGTCAGGACCTGGGCCATTGCAACCAAAATGGGGACT
TCTTGGGTAGGGAGGTCACTCCCTTCTACTCACTGAGCTAGGATTAGGGAGGGTTATTGCCCCAACCATGCAATG
GGAGGTGGAGGGACAGGCTCAGCCTCCTCATTGTCTAAATGAGGCCATAATGTGTGAAGTGGGATTTCTGCTTTT
GTGTACCCACCACCCCATACCACAGCTGCCTTTGTGTGTTTGTGTCAATAAAAAGCCAAACCTGGGAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4876

MSDEREVAEAATGEDASSPPPKTEAASDPQHFAASEGAAAAAASP LLRCLVLTGFGGYDKVKLQSRPAAPPAPG
PGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTTPGMEGAGVVI AVGEGVSDRKAGDRVMVLNRS GMWQEEVTVP
SVQTFLIPEAMTFEEAAALLVNYITAYMVLDFDGNLQPGH SVLVHMAAGGVGMAAVQLCRTVENVTVFGTASASK
HEALKENGVTHTPIDYHTTDYVDEIKKISP KGV DIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLMA
LARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGH IKPHIDSVWPF EKVADAMKQMQ
EKKNVGKVLLVPGPEKEN

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FIGURE 4877

ATGGAGGGGCAGAGCGGCCGCTGCAAGATCGTGGTGGTGGGAGACGCAGAGTGCGGCAAGACGGCGCTGCTGCAG
GTGTTCCGCAAGGACGCCTATCCCGGGAGTTATGTCCCCACCGTGTTTGAGAACTACACTGCGAGCTTTGAGATC
GACAAGCGCCGCAATTGAGCTCAACATGTGGGACACTTCAGGTTCCCTCTTACTATGATAATGTCCGGCCTCTGGCC
TATCCTGATTCTGATGCTGTGCTCATCTGCTTCGACATTAGCCGACCAGAAACACTGGACAGTGTCTCAAGAAG
TGGCAAGGAGAGACTCAAGAGTTCTGCCCCAATGCCAAGGTTGTGCTGGTTGGCTGTAAACTGGACATGCGGACT
GACCTGGCCACACTGAGGGAGCTGTCCAAGCAGAGGCTTATCCCTGTTACACATGAGCAGGGCACTGTGCTGGCC
AAGCAGGTGGGGGCTGTGTCTATGTTGAGTGCTCCTCCCGTCTCTGAGCGCAGCGTCAGGGATGTCTTCCAT
GTGGCTACAGTGGCCTCCCTTGCCCGTGGCCATAGGCAGCTGCGCCGAAGTACTCACGCCGGGGAATGCAGCGA
TCCGCTCAGCTGTCAGGACGGCCAGACCGGGGAATGAGGGCGAGATACACAAGGATCGAGCCAAAAGCTGCAAC
CTCATGTGA

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FIGURE 4878

MEGQSGRCKIVVVGDAECGKTALLQVFAKDAYPGSYVPTVFENYTASFEDKRRIELNMWDTSGSSYYDNVRPLA
YPDSDAVLICFDISRPETLDSVLKKWQGETQEFPCNAKVVLVGCKLDMRTDLATLRELSKQRLIPVTHEQGTVLA
KQVGAVSYVECSSRSSERSVRDVFHVATVASLGRGHRQLRRDTSRRGMQRSAQLSGRPDRGNEGEIHKDRAKSCN
LM

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FIGURE 4879A

GGCGGAAGCACGATCTCCGGCAGCGGCTGGGAACCTCTTAGCTGAGCAGGCGAGAGCATCATGGATACCGACTTA
TATGATGAGTTTGGGAATTATATTGGACCAGAGCTTGATTCTGATGAAGATGATGATGAATTGGGTAGAGAGACC
AAAGATCTTGATGAGATGGATGATGATGACGACGACGATGACGTAGGAGATCATGACGATGACCACCCTGGGATG
GAGGTGGTGCTGCATGAGGACAAGAAGTACTACCCAACAGCCGAGGAGGTGTATGGTCTGAGGTGGAGACCATA
GTTCAAGAGGAAGACACTCAGCCTCTCACAGAACCCATTATTAAGCCAGTGAAAACCAAGAAATTCATCTGATG
GAGCAGACATTACCTGTACGGTGTATGAGATGGATTTCTTGGCGGATCTGATGGATAACTCAGAGCTCATCAGA
AATGTGACCCCTTTGTGGACATCTCCACCATGGCAAGACATGTTTTGTGGATTGTTTAATTGAACAGACTCACCCG
GAAATCAGAAAGCGCTATGACCAAGATCTGTGCTATACTGACATCCTCTTCACAGAGCAAGAGAGAGGTGTAGGC
ATCAAAGCACTCCGTGTGACAGTGGTCTTGCCAGACACCAAAGGAAAATCTTATCTCTTCAATATCATGGACACT
CCAGGACATGTGAATTTCTCTGATGAGGTACAGCTGGCTTGCGCATCTCAGATGGAGTGGTCTTTTCATTGAT
GCTGCTGAGGGGGTGATGCTGAACACAGAGCGGCTGATCAAGCATGCGGTGCAGGAGAGGCTGGCAGTCACTGTG
TGCATCAACAAGATTGACCGGCTGATCCTGGAGCTGAAGCTGCCTCCAAGTATGCTTATTACAAGCTGCGCCAC
ATTGTGGATGAGGTCAATGGATTAATAAGCATGTATTCCACTGATGAGAACCCTGATCCTTTCCCACTCCTGGGT
AACGCTCTGCTTCTCCAGCTCCAGTACAGCATCTGCTTACGCTGGGCTCCTTTGCCAAGATCTATGCCGACACC
TTTGGTGACATTAATTACCAAGAATTTGCTAAAAGACTCTGGGGTGACATCTACTTCAACCCTAAGACGCGAAAG
TTCACCAAAAAGGCCCCAACTAGCAGCTCCAGAGAAGTTTCGTGGAGTTTATCTTGGAGCCTCTTTATAAGATC
CTCGCCAGGTTGTAGGTGACGTGGACACCAGCCTCCACGGACCTAGACGAGCTTGGCATCCACCTGACGAAG
GAGGAGCTGAAGCTGAACATCCGCCCCCTTGCTCAGGCTGGTCTGCAAAAAGTTCTTGGCGAGTTCACAGGCTTT
GTGGACATGTGTGTGACGATATCCCTTCTCCAAAGGTGGGCGCAAGCCCAAGATTGAGCACACCTACACCGGT
GGTGTGGACTCCGACCTCGCGAGGCTATGAGTGACTGTGACCTGATGGCCCCCTGATGTGCCACACTACTAAG
ATGTACAGCACAGATGATGGAGTCCAGTTTACGCTCTTGGCCGGGTGCTGAGTGGCACCATTTCATGCTGGGCAG
CCTGTGAAGGTACTGGGGGAGAACTACACCCTGGAGGATGAGGAAGACTCCAGATATGCACCGTGGGCCGCTT
TGGATCTCTGTGGCCAGGTACCACATCGAGGTGAACCGTGTCTCTGCTGGCAACTGGGTCTGATTGAAGGTGTT
GATCAACCAATTGTGAAGACAGCAACCATAACCGAACCCCGAGGCAATGAGGAGGCTCAGATTTTCCGACCCCTG
AAGTTCAATACCACATCTGTTATCAAGATTGCTGTGGAGCCAGTCAACCCCTCAGAGCTGCCCAAGATGCTTGAT
GGCCTGCGCAAGGTCAACAAGAGCTATCCATCCCTCACCACCAAGGTGGAGGAGTCTGGCGAGCATGTGATCCTG
GGCACTGGGGAGCTCTACCTGGACTGTGTGATGCATGATTTGCGGAAGATGTACTCAGAGATAGACATCAAGGTG
GCTGACCCAGTTGTACGTTTGTGAGACGGTGGTGGAAACATCTCCCTCAAGTGCTTTGCTGAAACGCTAAT
AAGAAGAACAAGATCACCATGATTGCTGAGCCTCTTGAGAAGGGCCTGGCAGAGGACATAGAGAATGAGGTGGTC
CAGATTACGTGGAACAGGAAGAAGCTGGGAGAGTCTTCCAGACCAAGTACGATTGGGATCTGCTGGCTGCCCCG
TCCATCTGGGCTTTTGGCCCTGATGCGACTGGCCCCAACATTCTGGTGGATGATACTCTGCCCTCTGAGGTGGAC
AAGGCTCTTCTTGGTTCAAGTGAAGGACAGCATCGTCAAGGTTTCCAGTGGGGAACAGGGAGGGCCCCCTCTGT
GATGAATTGATTGGAATGTCAAGTTTAAGATCTGGATGCGGTGGTTGCCAGGAGCCCCTGCACCGGGGCGGG
GGCCAGATCATCCCCACAGCCAGGAGAGTCTGCTACTCTGCCTTCTCATGGCTACTCCTCGTCTGATGGAGCCT
TACTACTTTGTAGAGGTCCAGGCCCCCTGCAGATTGCGTCTCTGCAGTTTATACCGTCTTGGCCAGGCGCAGGGGG
CACGTGACTCAGGATGCACCCATCCCAGGCTCCCTCTGTACACCATCAAAGCTTTTATCCCGGCCATCGACTCT
TTTGGCTTTGAGACTGATCTCCGACTCACACCCAGGACAAGCCTTTTCTCTGTCTGTCTTCCACCACTGGCAG
ATTGTGCCTGGTGATCCCCTGGACAAGAGCATTGTATCCGCCCTTGGAGCCACAGCCAGCTCCTCACCTGGCC
CGGGAATTCATGATCAAAACCCGCGTAGGAAGGGCCTCAGTGAAGATGTGAGCATCAGCAAATCTTCGATGAT
CCTATGTTGTGGAACCTTGCCAAACAGGATGTTGTGCTCAATTACCCCATGTGAGTGCCTGGACTCCTGGGAGCT
CCTGCTCCCTACAGTGGGCTGCAACTCCTGTACTTGAAGCTGAGACCTCATATGACGTGGCCTTCGTGTTGTGAG
AGAGTGTCTGGAAGCTGCTGTGCCATCTTGAACAACTACCAACCTCCAACCCAGAGCCCCAGTGAGAGAGGAG
CATTTGGCCTCCTGCTTCTTCTGTGGCCTCTGCCGGGCTCCATTCCAAGGAAAAGAGAGGAGCTTGGGCTCAC
AGAAAGAGAAGGGGATGAAACCCCAAGGGGCCCTATCTTTGGGATTACATGGAATTTTATTTTCTACAAGTTTG
ACCTTAGCCATGGTTTGCAAGTGAACAGAACATTCTGACCTCTGTCTTGCTCTGCTCCTTTCATCCTCGTCTCCC
CTGCCCCATCTGGTGTACATTCTGAATATATGTATCTCCCAAGAGGCTTCACTGCCTCTGCTTCCAGCTGCA
GCCTCCTTCTGCTGGGTCCCAGGGAAGCCGCTGCCTTTTAATTCAGTGTTCCCATGAGCGCCAAGGCCCCA
TTATTGCCCCCTTGCTCCCACTCCATGCTGCTTCTGGGTGGGACCTAAGATGGCTTGGGAGTTGTTGGGTTCTCTG

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FIGURE 4879B

CGATCAGAAGTCTACCCACCACTCCTCAGGAACTGCTGCCTCCCCTAAGAATCTTCCTTGCCCTGGAGTAGG
GGGCCAGAGCACTTTGATTTCAGCCATTTACTCCAAGTCCTCTCCCCAGCTACCACCAGTCCCTTACTCTGTTC
TCCCCAGTGAAAAAGAGTCTGTTGATTTTCCTC

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FIGURE 4880

AGAGCCAGAGCAGGATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCCTCAGGGGAGATGA
TGGTGGGGGGCTGGCTCCTGGCCGCGCTCTGGGTCTGGCACCCGCTCTCCCTGGCTCGAATGCCCCCTCCXA
CTCCCGACCCGGGTGGATTCTCCCTGGCTGGGGCACTCAATGCTGGCTTCAAGGAGACCCGGGCCAGTGAGCGG
GCAGAGATGATGGAGCTCAATGACCGCTTTGCCAGCTACATCGAGAAGGTTTCGCTTCTTGGAACAGCAAAACAAG
GCGCTGGCTGCTGAGCTGAACCAGCTGCGGGCCAAGGAGCCACCAAGCTGGCAGACGTCTACCAGGCTGAGCTG
CGAGAGCTGCGGGCTGCGGCTCGATCAACTCACCGCCAACAGCGCCCGCTGGAGGTTGAGAGGGACAATCTGGCA
CAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAACCTGAGGCTGGAAGCCGAGAACAACCTGGCT
GCCTATAGACAGGAAGCAGATGAAGCCACCCTGGCCCGTCTGGATCTGGAGAGGAAGATTGAGTCGCTGGAGGAG
GAGATCCGGTTCTTGAGGAAGATCCACGAGGAGGAGGTTTCGGGAACCTCCAGGAGCAGCTGGCCCGACAGCAGGTC
CATGTGGAGCTTGACGTGGCCAAGCCAGACCTCACCGCAGCCCTGAAAGAGATCCGCACGCAGTATGAGGCAATG
GCGTCCAGCAACATGCATGAAGCCGAAGAGTGGTACCGCTCCAAGTTTGACAGACCTGACAGACGCTGCTGCCCGC
AACGCGGAGCTGCTCCGCCAGGCCAAGCACGAAGCCAACGACTACCGCGCCAGTTGCAGTCCTTGACCTGCGAC
CTGGAGTCTCTGCGCGGCACGAACGAGTCCCTGGAGAGGCAGATGCGCGAGCAGGAGGAGCGGCACGTGCGGGAG
GCGGCCAGTTATCAGGAGGCGCTGGCGCGGCTGGAGGAAGAGGGGCAGAGCCTCAAGGACGAGATGGCCCGCCAC
TTGCAGGAGTACCAGGACCTGCTCAATGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTA
GAGGGCGAGGAGAACCGGATCACCATTCCCGTGCAGACCTTCTCCAACCTGCAGATTGAGAAAACAGCCTGGAC
ACCAAGTCTGTGTGAGAAGGCCACCTCAAGAGGAACATCGTGGTGAAGACCGTGGAGATGCGGGATGGAGAGGTC
ATTAAGGAGTCCAAGCAGGAGCACAAGGATGTGATGTGAGGCAGGACCCACCTGGTGGCCTCTGCCCCGTCTCAT
GAGGGGCCCCGAGCAGAAGCAGGATAGTTGCTCCGCTCTGCTGGCACATTTCCCCAGACCTGAGCTCCCCACCAC
CCCAGCTGCTCCCCCTCCCTCCTCTGTCCCTAGGTGAGCTTGTGCTGCCCTAGGCTCCGTGAGTATCAGGCCTGCCAG
ACGGCACCCACCCAGCACCCAGCAACTCCAACCTAACAAGAACTCACCCCCAAGGGGCAGTCTGGAGGGGCATGG
CCAGCAGCTTGCGTTAGAAATGAGGAGGAAGGAGAGAAGGGGAGGAGGGCGGGGGGCACCTACTACATCGCCCTCC
ACATCCCTGATTCTGTTGTTATGGAACCTGTTGCCAGAGATGGAGGTTCTCTCGGAGTATCTGGGAACCTGTGCC
TTTGAGTTTCTCAGGCTGCTGGAGGAAAACCTGAGACTCAGACAGGAAAGGGAAGGCCCCACAGACAAGGTAGCC
CTGGCCAGAGGCTTGTTTTGTCTTTTGGTTTTTATGAGGTGGGATATCCCTATGCTGCCTAGGCTGACCTTGAAC
TCCTGGGCTCAAGCAGTCTACCCACCTCAGCCTCCTGTGTAGCTGGGATTATAGATTGGAGCCACCATGCCCAGC
TCAGAGGGTTGTTCTCCTAGACTGACCTGATCAGTCTAAGATGGGTGGGGACGTCCTGCCACCTGGGGCAGTCA
CCTGCCCAGATCCCAGAAGGACCTCCTGAGCGATGACTCAAGTGTCTCAGTCCACCTGAGCTGCCATCCAGGGAT
GCCATCTGTGGGCACGCTGTGGGCAGGTGGGAGCTTGATTCTCAGCACTTGGGGGATCTGTTGTGTACGTGGAGA
GGGATGAGGTGCTGGGAGGGATAGAGGGGGGCTGCCTGGCCCCCAGCTGTGGGTACAGAGAGGTCAAGCCCAGGA
GGACTGCCCCGTGCAGACTGGAGGGGACGCTGGTAGAGATGGAGGAGGAGCAATTGGGATGGCGCTAGGCATAC
AAGTAGGGGTTGTGGGTGACCACTTGCCCTCTGGATTGTGGGAATTAAGGAAGTGACTCATCTCTTGA
AGATGCTGAAACAGGAGAGAAAGGGGATGTATCCATGGGGGCAGGGCATGACTTGTCCATTCTAAAGGCCTC
TTCCTTGTGTGTACATACCAGGCCGCCAGCCTCTGAGCCCCCTGGGACTGCTGCTTCTTAACCCAGTAAGCCA
CTGCCACACGTCTGACCTCTCCACCCCATAGTGACCGCTGCTTTTCCCTAAGCCAAGGGCCTCTTGCGGTCCC
TTCTTACTCACACAAAAATGTACCCAGTATTCTAGGTAGTGCCCTATTTTACAATTGTAAACTGAGGCACGAG
CAAAGTGAAGACACTGGCTCATATTCTGACGCTGGAGGCCGGGTGCTCAGGGCTGACACGTCCACCCAGTGC
ACCCACTCTGCTTTGACTGAGCAGACTGGTGAGCAGACTGGTGGGATCTGTGCCCAGAGATGGGACTGGGAGGGC
CCACTTCAGGGTTCTCCTCTCCCCTTAAGGCCGAAGAAGGGTCTTCCCTCTCCCCAAGACTTGGTGTCTTTC
CCTCCACTCCTTCTGCCACCTGCTGCTGCTGCTGCTGCTAATCTTCAGGGCACTGCTGCTGCCTTTAGTCGCTG
AGGAAAAATAAGACAAATGCTGCGCCCTT

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FIGURE 4881

CCTCTCTCCGGGCGTGCCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGGCGTGCCAAAAAGGGCCGCGGCCA
CCTGCAACCTATTTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCG
AAACATAGTGGAGGCCGCAACAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAAC
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCAGGTCCCCACCAAAGCCCATGTAAGG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 4882

MTKKRRNNGRAKKGRGHLQPIRWTNCARCVPKDKGIKKFVIRNIVEAATVRDISEVSVFDAYVLPKLYVKLHYCV
SCAIHSKVVRNRSREARKDRTPPPRFRPAGAAPGPPPKPM

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FIGURE 4883A

GGCAGGAGGCTGCTCTCGCAACTCAAGATGGCGGACGAGAGTGAGACAGCAGTGAAGCCGCCGGCACCTCCGCTG
CCGCAGATGATGGAAGGGAACGGGAACGGCCATGAGCACTGCAGCGATTGCGAGAATGAGGAGGACAACAGCTAC
AACC GG GGTGGTTT GAGTCCAGCCAATGACACTGGAGCCAAAAAGAAGAAAAAGAAACAAAAAAGAAGAAAGAA
AAAGGCAGTGAGACAGATTAGCCAGGATCAGCCTGTGAAGATGAACTCTTTGCCAGCAGAGAGGATCCAGGAA
ATACAGAAGGCCATTGAGCTGTTCTCAGTGGGTGAGGACCTGCCAAAACCATGGAGGAGGCTAGCAAGCGAAGC
TACCAGTTCTGGGATACGAGCCCGTCCCCAAGCTGGGCGAAGTGGTGAACACCCATGGCCCCGTGGAGCCCTGAC
AAGGACAATATCCGCCAGGAGCCCTACACCCTGCCCCAGGGCTTACCTGGGATGCTTTGGACTTGGGCGATCGT
GGTGTGCTAAAAGAACTGTACACCCTCCTGAATGAGAAGTATGTGGAAGATGATGACAACATGTTCCGATTTGAT
TATTCGCCGAGTTTCTTTTGTGGGCTCTCCGGCCACCCGGCTGGCTCCCCAGTGGCAGCTGTGGGTTTCGAGTG
GTCTCAAGTCGGAATTTGGTTGGGTTTATTAGCGCCATCCAGCAACATCCATATCTATGACACAGAGAAGAAG
ATGGTAGAGATCAACTTCTGTGTGTCCACAAGAAGCTGCGTTCCAAGAGGGTGTCTCCAGTTCTGATCCGAGAG
ATCACCAGCGGGGTTACCTGGAGGGCATCTTCCAAGCAGTTTACACTGCCGGGGTGGTACTACCAAAGCCCGTT
GGCACCTGCAGGTATTGGCATCGGTCCCTAAACCCACGGAAGCTGATTGAAGTGAAGTTCTCCACCTGAGCAGA
AATATGACCATGCAGCGCACCATGAAGCTCTACCGACTGCCAGAGACTCCCAAGACAGCTGGGCTGCGACCAATG
GAAACAAAGGACATTCAGTAGTGACACAGCTCCTCACCAGGTACTTGAAGCAATTTACCTTACGCCCGTCATG
AGCAGAGGAGGAGGTGGAGCACTGGTTCTACCCCGAGGAGAATATCATCGACACTTTCGTGGTGGAGAACGCAAC
GGAGAGGTGACAGATTTCTGAGCTTTTATACGCTGCCCTCCACCATCATGAACCATCCAACCCACAAGAGTCTC
AAAGCTGCTTATTCTTTCTACAACGTTTACACCCAGACCCCTCTTCTAGACCTCATGAGCGACGCCCTTGTCTCTC
GCCAAATGAAAGGGTTTGATGTGTTCAATGCACTGGATCTCATGGAGAACAAACCTTCTGGAGAAGCTCAAG
TTTGGCATAGGGGACGGCAACCTGCAGTATTACCTTTACAATTGGAAATGCCCCAGCATGGGGGAGAGAAGGTT
GGACTGGTGTACAAATAACAGTCAACAGTGCAGTCTGGATAAAGCCACTGAAAATTGAAACAGGAAATGGAA
CCCCACCACTGTTGGTCCAAATTTTACACACGTGAGAATCCCTGGCAAAGGGAGCAGAACTGAACCGGCTTTACC
AAACCGCCAGCGAACCTTGACAATTGTATTGCGATGGCGTGGGCTGCGTGACGTACCTCCGGTGTGTCTCTGGT
CTCCGTGTTTTCAGTTAATTACATCCTCATGCAGCCGTGATCAAGGGAATGTAAGTCTGAAAAGTCTGCTGCTG
ATTGGCATATAATGGAGTTAACGGGTGAATAATAAAGTATATATATATATATATATATATATATATATATATAT
ATCTTTTATGTTCCAAATGTACAAGGATGTTTGGTCTTTAATGAAAAGCTGAATCTAGATCATTCTCAGAAATGA
GGACCCGAGGACAGTGGCAGACAGACGCGTTGGCACAGTTCATGGTTTCTCCAGAGGAGACATTGGCTTATCAT
GGGGAAGAGAGGATCTGGAGAACCTCATCCAGCTCCCTTCTGAATCAGCTGGGATGACTGGCTTTGAGAAGGA
AGGGAAGATGGAACAGGCTCAGATCTCATGGGATAGCACGTGGAGCTCTTGGCTGGGGCTGACCTGGGCAGGGA
CTTTCTGCAGGGCCAGACCTGCCTGCATTCTGAGACAAAGCAATGGACGGTCCGCAGAAGCAGACCTCATTGAT
TGAGTCTTTCTTCCATCCCTTGGCCTGCTCCCTGTAGGAAGTCATCTGCCAACTGATTTAAAGGGCTCTTT
AGCCAGTTGTTGCCAACCTTATAGGGATGAGTCCCTGTGAGATTTTGTCTTTTCCACTGCCTGGGATGATGCAGT
TTGAAGAGGCCCTTGGACCTCCTTGTAACATCAGGGACCTTTGGAGACCATTATCAGTGTAAGCCCTGCTTAGCT
CATCTTAGAGCAAAGAGCCAGCACCTGATGTCCCTGGGGTGGCTAGGCAGGAGTGGCGTGGGGCCAATACCCAG
ACCCCTTCAGCCACCAGCCCTGGCCTGTGCCCTTCAACCCATTAGCCATTTCTTGTGTGCCCTTTCCAAGAT
ACAGCCTGCAAGTGGTAGCAAGAAGTGATTAGAGGCAGATCTGGACTTGGCAACAGAAGTGGTTTCCCATCTCCA
TTGTCTGAGTCTGATTTTTCGCTGATGCTGTTTTGTGGATTTTTGTGGTAGTGATGGTTGTGAGTGTGCCAGTTT
CCCCAAACGTAATCAAGCCTCTGGTCACATGGCTGTGATGTAGGCATTCTGGAGTGGTGTTCAGCCAAGTGACC
GGGCAAAATTGGGCTGTGAAATTGTACTTCCAGGCTTGGATGTAATTTTTGCTCTAGAGAGAAGCAAGTGGTGGG
AAGGAGGTAGCATGACGTGTGGTGTGCGGGTTTCTTGTGCTGCCGTACCTCTCCGCTCATACAGGAATGAAGCCT
TAGCCAGGAGGCCAGGCTCAGCCCTGTGCCACTACCGAAGCCACTTTCTACAGGCCAGCAGGGGCTTGTGTCAG
GCTGTGGGTTTTGGTGTGGTTTGTGAGGGCTAATCTGCAGAGTTTCCAAAACCAGAAGACATCGTATGCTTGG
GATGGGGGCCGTGCCACCCGTGGGAATGCTGCCCGCTCTGCAGACTGCTGCTAGAGCCAGCAACTCCACTAAGGT
GGATTTTTCATCAGGGGCCCTGCAGGGCCCTCCCTTTTCCATTGTTCTGCGCTGCAAATTGCAGGGCCCAGCAAT
CGTGAAGTACGTTTGTCTTGTACTCCAAGAACTGAGACCAAGAGCTGCTGTTCTTAGCAAGATGCGCACTG
CATTCCACAGGTGGGAGGAGTCGGAGAGGCAGGGGCTTGTCTTGCAGCCCCACAGACAACAGTTGCACAGTGCCT
CAAGCCCCAGAGTGGCTCACCTGTCCAGACCTTTGAGGATATCAAAGGACAAAGTGCCCAAGTCTTTCTACCT
TGGGGGAACCTGGAACCTGGAAAGGCTCCCTGTCTAGTCTTGATCTGTTCTGGGCCAGGTCCAGCTTGAGCTG

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FIGURE 4883B

CCTCTGAGATTTGGGCTGTGCGGATCTCTGGAGTGAGCTCTGTTTCGGTTGACCCAGGTCATGGAATGGAAACGG
TGAGGCCCCAGTGGCTGTTCTGGAAGAAACAGATCTCCTGGCAAAGGCCCCAGCATCTCCCTCACTGAAACCAGG
TGGCCGGCTCCTCGGACTCTGCTTTATGTTGCGGTGAGAACTCTGCCCAGGTGTGCAGGGTTTGGCTTGTGGGCT
GCTTGCTGCTCATCTGATTTTTGTCCCAGTAGTCCCTGCGTTCTTCATTCAACCCCTTCTGGGACTTCAGCTCAG
AGAGCACCATCCCGGGGGTCAGGGCCTCCCCACAGGAGCCCTGCAGTGTGGTAGCGCCATGGCTGTCTCAAACCA
AGCAAAGGAAGGACCCTGAGGCCTTCACGCTAACCATCCTCGAGCAACTGCTGTTGGAAGGCCTCCCTGGGCCTG
GCCCCACCCCTCTGCCACCCAGTCTCCAGCTGCCATGTTTCAAAGACGACCTTTACCTCCTGCCTTTGGATTG
ACTCTGCATTTGACCACGGACTCCAGTCTGTGTGTAGGGAGAGAGCTGAGTAGGAGGCCTCCACTCCGGATCGAG
GCCTGTATAGGGCTCGTTTCCCCACACATGCCTATTTCTGAAGAGGCTTCTGTCTTATTTGAAGGCCAGCCCACA
CCCAGCTACTTTAACACCAGGTTTATGGAAAATGTCAGGCCTTCCCCACAACCTCCTGTCTAACTGCTGTGCCCC
CCTACTTGCTGGCTCTCAGAAGCCTAGGGGAGTCCCTGTGGTCTCTGAATTCTTTCCCCAAAGACGACCAGCATTT
AACCAACCTAAGGGCCCCAAAGGCCTTGGACAACCTGCATGGAGCTGCACTCTAGGAGAAGGAGGGGAACCAGATGT
TAGATCAGGGGAGGGAGCAGGAGTGTCCCTCCCGTCAGTGCCACCTACCCACCTGTGAGGCAGCCTTCTGATGGCCTG
GCCCCCCTTCCCCAGAACCAGGGGAGGCCTGAGGCCTTCACTTTTACTCTGCTGCAAAATGAAGGCGGGCCTGCAA
GCCGACTACACCTACGGAGGCTGTTGAGGACAATTTCACTCCATTAAATTAATAATACTGACTGGCTGGCAGGC
AGGTGCCATGTCTGGGAACAGGGACGGGGAGCTTACCTTTTTGTCTTGGCTTTTCTTTGGGCTGTGGGGGGC
ATCCATTTCCAGGTCGGGGAGGAAATACCAAATGCATTGTTGTTCTGCTCAATACATCTCACTTGTCTTAATA
AAGAAAGCAGCTGAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4884

MADESETAVKPPAPPLPQMMEGNGNGHEHCSDCENEEDNSYNRGGLSPANDTGAKKKKKQKKKKEKGETDSAQ
DQPVKMNSLPAERIQEIQKAIELFSVGQGPAKTMEEASKRSYQFWDTPVPKLGEVVNTHGPVEPKDNIRQEPY
TLPQGFWDALDLGDRGVLKELYTLLNENYVEDDDNMFRFDYSPEFLLWALRPPGWLPQWHCGVRVSSRKLVGF
ISAIPANIHIYDTEKKMVEINFLCVHKKLRSKRVPVLIREITRRVHLEGIFQAVYTAGVVLPKPVGTCRYWHR
LNPRKLIEVKFSHLNRMTMQRIMKLYRLPETPKTAGLRPMETKDIPVVHQLLTRYLKQFHLTPVMSQEEVEHWF
YPQENIIDTFVVENANGEVTDFLSFYTL PSTIMNHPTHKSLKAAYSFYNVHTQTPLLDLMSDALVLAKMKGFDF
NALDLMENKTFLEKLKFGIGDGNLQYYLYNWKCP SMGAEKVGLVLQ

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FIGURE 4885

TTCGCTCGCCGCTCGCTCAGAGCCGGGGCCGGGCCAGAGCGGGCGCCCGCTGCCCTGTCCCCGCGTGCAGACCC
CGGGCCCGGCCCGGCCCGGCCCAAGCCATGCTGTGCGGCCGCTGGAGGCGTTGCCCGCCCGCCCGAGGAGC
CCCCGGTGGCCGCCAGGTTCGAGCCCAAGTCGCGGCCCGGCTCGCTCTCCCGTCCCCGCCGACTCCCTCCGATG
CGGGACCAAGAGGCCCGGGCTGCGGGCGCTGAAGAAGATGGGCCTGACGGAGGACGAGGACGTGCGGCCATGC
TGGGGGCTCCCGGCTCCGCAAGATCCGCTCGCGCACGTGGCACAAGGAGCGGCTGTACCGGCTGCAGGAGGACG
GCCTGAGCGTGTGGTTCCAGCGGCGCATCCCGGCTGCGCCATCGCAGCACATCTTCTTCGTGCAGCACATCGAGG
CGGTCCGCGAGGGCCACCAGTCCGAGGGCCTGCGGCGCTTCGGGGGTGCCCTTCGCGCCAGCGCGCTGCCACCA
TCGCCTTCAAGGGCCCGCCGAAGAACCCTGGACCTGGCGGCGCCACGGCTGAGGAAGCGCAGCGCTGGGTGCGCG
GTCTGACCAAGCTCCGCGCGCGCCTGGACGCCATGAGCCAGCGCGAGCGGCTAGACCACTGGATCCACTCCTATC
TGCACCGGGCTGACTCCAACCAGGACAGCAAGATGAGCTTCAAGGAGATCAAGAGCCTGCTGAGAATGGTCAACG
TGGACATGAACGACATGTACGCCTACCTCCTCTTCAAGGAGTGTGACCACTCCAACAACGACCGTCTAGAGGGG
CTGAGATCGAGGAGTTCTGCGGCGGCTGCTGAAGCGGCCGGAGCTGGAGGAGATCTTCCATCAGTACTCGGGCG
AGGACCGCGTGTGAGTGGCCCTGAGCTGCTGGAGTTCTGGAGGACCAGGGCGAGGAGGGCGCCACACTGGCCC
GCGCCAGCAGCTCATTCAGACCTATGAGCTCAACGAGACAGCCAAGCAGCATGAGCTGATGACACTGGATGGCT
TCATGATGTACCTGTTGTCGCGGAGGGGGCTGCCTTGGACAACACCCACACGTGTGTGTTCCAGGACATGAACC
AGCCCCCTTGCCCACTACTTCATCTCTTCTCCACAACCTATCTGACTGACTCCAGATCGGGGGGCCAGCA
GCACCGAGGCCTATGTTAGGGCCTTTGCCAGGGATGCCGTGCGTGGAGCTGGACTGCTGGGAGGGGCCAGGAG
GGGAGCCCGTCATCTATCATGGCCATACCTCACCTCCAAGATTCTTCCGGGACGTGGTCCAAGCCGTGCGCG
ACCATGCCCTTACGCTGTCCCCTTACCCTGTCATCTATCCCTGGAGAACCACCTGCGGGCTGGAGCAGCAGGCTG
CCATGGCCCGCCACCTCTGCACCATCTGGGGGACATGCTGGTGACACAGGCGCTGGACTCCCAATCCCGAGG
AGCTGCCATCCCCAGAGCAGCTGAAGGGCCGGGTCTGGTGAAGGGAAAGAGTTGCCCGTGTCTCGGAGCGAGG
ATGGCCGGGCTCTGTGCGATCGGGAGGAGGAGGAGGATGACGAGGAGGAAGAAGAGGAGGTGGAGGCTGCAG
CGCAGAGGCGGCTGGCCAGCAGATCTCCCGGAGCTGTGCGCCCTGGCTGTGTACTGCCACGCCACCCGCTGC
GGACCCTGCACCCTGCCCCCAAGCCCCACAACCCTGCCAGGTCAGCTCCCTCAGCGAGCGCAAAGCCAAGAAAC
TCATTCCGGAGGCAGGGAACAGCTTTGTGAGGCACAATGCCCGCCAGCTGACCCGCGTGTACCCGCTGGGGCTGC
GGATGAACTCAGCCAACTACAGTCCCCAGGAGATGTGGAACCTGGGCTGTGAGCTGGTGGCCTTGAACCTCCAGA
CGCCAGGCTACGAGATGGACCTCAATGCCGGGCGCTTCCTAGTCAATGGGCAGTGTGGCTACGTCTAAACCTG
CCTGCCTGCGGCAACCTGACTCGACCTTTGACCCGAGTACCCAGGACCTCCAGAACCCTCTCAGCATCCAGG
TGCTGACTGCACAGCAGCTGCCCAAGCTGAATGCCGAGAAGCCACACTCCATTGTGGACCCCTGGTGCGCATTG
AGATCCATGGGGTGCCCGCAGACTGTGCCCGGAGGAGACTGACTACGTGCTCAACAATGGCTTCAACCCCGCT
GGGGGAGACCTGCAGTTCCAGCTGCGGGCTCCGGAGCTGGCACTGGTCCGGTTTGTGGTGAAGATTATGACG
CCACCTCCCCCAATGACTTTGTGGGCCAGTTTACACTGCCTCTTAGCAGCCTAAAGCAAGGGTACCGCCACATAC
ACCTGCTTTCCAAGGACGGGGCCTCACTGTCAACAGCCACGCTCTTCATCCAAATCCGCATCCAGCGCTCCTGAG
TAGCTGGGACTACAGGCACAGGCCACCACACCTGGCTAATGTTTAAATTTTATGTAGAGATGGCGGGGGGGCGG
GGGTCTCCCTATGCTGCCAGGCTGGTCTCGAGCTCCTGACCTCAAGTGATCCTCTGCCCCAGCATTCCAAAGT
GCTGGGATTACAGGTGTGAGCCACTGCCTGGCCTGGCCGTAGGTTTGTAAGTGTTCATAGAAGAGCCCTGGAGA
AGACAGTAGAATGAGCCTATCTAGTTTAAAAAATAAAGAAGCACGTTGATTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4886

MLCGRWRRRCRRPPEEPPVAAQVAAQVAAPVALPSPTPSDGGTKRPGLRALKKMGLTEDEDVRAMLRGSRLRKIR
SRTWHKERLYRLQEDGLSVWFQRRIPRAPSQHIFVQHI EAVREGHQSEGLRRFGGAFAPARCLTIAFKGRKKNL
DLAAPTAEAAQRWVRGLTKLRARLDAMSQRERLDHWIHSYLHRADSNQDSKMSFKEIKSLLRMVNVDMNDMYAYL
LFKECDHSNNDRLEGAEIEEFLRRLKRPLEEIFHQYSGEDRVLSAPELLEFLLEDQGEEGATLARAQQLIQTYE
LNETAKQHELMTLDGFMYYLLSPEGAALDNTHTCVFQDMNQPLAHYFISSSHNTYLTDSQIGGPSSTEAYVRAFA
QGCRVELDCWEGPGGEPVIYHGHTLTSKILFRDVVQAVRDHAFTLSPPVILSLENHCGLEQQAAMARHLCTIL
GDMLVTQALDSPNPEELPSPEQLKGRVLVKGKKLPAARSEDGRALSDREEEEDDEEEEEEVEAAAQRRLAKQIS
PELSALAVYCHATRLRTLHPAPNAPQPCQVSSLERKAKKLIREAGNSFVRHNARQLTRVYPLGLRMNSANYSPQ
EMWNSGCQLVALNFQTPGYEMDLNAGRFLVNGQCGYVLKPACLRQPDSTFDPEYPGPPRTLSIQVLTAQQLPKL
NAEKPHSIVDPLVRIEIHGVPADCARQETDYVLNNGFNPRWGQTLQFQLRAPELALVRFVVEDYDATSPNDFVGO
FTLPLSSLKQGYRHIHLLSKDGASLSPATLFIQIRIQRS

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FIGURE 4887

CGGCCACGAGGCGGAATCCCTTCTGCTCTCCACGCGCAGCGCCGCCCGGCCCTCCAGCTTCCCGGACCATG

GCCAACCTGGAGCGCACCTTCATCGCCATCAAGCCGGACGGCGTGCAGCGCGGCCTGGTGGGCGAGATCATCAAG
CGCTTCGAGCAGAAGGGATTCCGCCTCGTGGCCATGAAGTTCCCTCCGGGCTCTGAAGAACACCTGAAGCAGCAC
TACATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAAGTCAAGGCGCGTTGTGGCCATG
GTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGGGGAGACCAATCCAGCAGATTCAAAGCCA
GGCACCATTCTGTGGGGACTTCTGCATTCAAGTTGGCAGGAACATCATTGATGGCAGTGATTGAGTAAAAAGTGCT
GAAAAAGAAATCAGCCTATGGTTTAAGCCTGAAGAACTGGTTGACTACAAGTCTTGTGCTCATGACTGGGTCTAT
GAATTAGAGGTGGACACAACAGCAGTCTCCTTCAGCACGGCGTGGTGTGTCCCTGGACACAGCTCTTCATTCCAT
TGACTTAGAGGCAACAGGATTGATCATTCTTTTATAGAGCATATTGCCAATAAAGCTTTTGAAGCCGG

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FIGURE 4888

MANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNSGPVVA
MVWEGLVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEELVDYKSCAHDWV
YE

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FIGURE 4889

TGCTGCGAACCACGTGGGTCCCGGGCGCGTTTCGGGTGCTGGCGGCTGCAGCCGGAGTTCAAACCTAAGCAGCTG
GAAGGAACCATGGCCAACTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTTGGGA
GAGATTATCAAGCGTTTTGAGCAGAAAGGATTCCGCCTTGTTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTT
CTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCACTCAGGGCCG
GTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTCGGGGAGACCAACCCTGCA
GACTCCAAGCCTGGGACCATCCGTGGAGACTTCTGCATACAAGTTGGCAGGAACATTATACATGGCAGTGATTCT
GTGGAGAGTGCAGAGAAGGAGATCGGCTTGTTGGTTTCACCCTGAGGAACTGGTAGATTACACGAGCTGTGCTCAG
AACTGGATCTATGAATAGACAGGAGGGCAGACCACATTGCTTTTACATCCATTTCCTCCTTCCCATGGGCAGA
GGACCAGGCTGTAGGAAATCTAGTTATTTACAGGAACTTCATCATAATTTGGAGGGAAGCTCTTGAGCTGTGAG
TTCTCCCTGTACAGTGTTACCATCCCCGACCATCTGATTAAATGCTTCCTCCAGC

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FIGURE 4890

MANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHS GPVVA
MVWEGLVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNWI
YE

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FIGURE 4891

GACAACTTGAGCTGAAAGCGAAAACTATGCTGACCAGATTAGCAGACTTGAAGAAAGAGAAGCAGAACTGAAGA
AGGAATATAATGCATTACATCAAAGACACACTGAGATGATCCATAATTATATGGAACATTTAGAAAGAACAAAAC
TTCATCAGCTCTCAGGGAGTGATCAACTAGAATCCACAGCTCATAGTAGAATTAGAAAAGAACGCCCTATATCAT
TAGGAATTTTCCCATTACCTGCTGGAGATGGATTGCTTACACCTGATGCTCAGAAAGGAGGAGAGACCCCTGGAT
CTGAGCAATGGAATTTTCAGGAATTAAGTCAACCACGTTCTCATACCAGCCTGAAGGATGAGCTTTCTGATGTTA
GCCAAGGCGGATCTAAAGCTACCACTCCAGCATCAACAGCTAATTTCAGATGTGGCAACAATTCCTACTGATACTC
CCTTAAAGGAAGAAAACGAAGGATTTGTGAAGGTTACAGATGCGCCAAATAAATCAGAGATAAGCAAACACATTG
AAGTACAGGTAGCCCAGGAACTAGAAATGTATCTACTGGCTCTGCTGAAAATGAAGAAAAGTCAGAAGTTCAAG
CAATCATCGAATCTACTCCTGAGCTGGATATGGACAAAGATCTCAGTGGATATAAAGGTTCAAGCACTCCCACCA
AAGGCATAGAGAACAAAGCTTTTGGATCGCAATACAGAATCTCTCTTTGAAGAACTGTCTTCAGCTGGCTCAGGCC
TAATAGGAGATGTGGATGAAGGAGCAGATTTACTAGGAATGGGTGCGGAAGTTGAGAATCTTATATTAGAAAATA
CACAACCTGTTGGAAACCAAAAATGCTTTGAACATAGTGAAGAATGATTTGATAGCAAAAGTGGATGAAGTACCT
GTGAGAAAGATGTGCTGCAAGGGGAATTGGAGGCTGTGAAGCAAGCCAACTGAACTAGAGGAAAAGAACAGAG
AATTGGAGGAAGAGCTTAGGAAAGCTCGGGCAGAAGCTGAAGATGCAAGGCAAAAGCAAAAGATGACGATGATA
GTGATATTCCCACAGCCCAGAGGAAACGGTTTACTAGAGTAGAAATGGCCCGTGTCTCATGGAGCGAAACCAGT
ATAAAGAGAGATTGATGGAGCTTCAGGAAGCTGTTGATGGACAGAGATGATTCGGGCATCAGGAGAAAATCCAG
CCATGCGAGGAAAAAAAGGTCAAGCATTGGCAGTTTTTTCAGCCGACTTTTCAGCTCCTCAAGTAACACGACTA
AGAAGCCTGAACCACCTGTTAATCTGAAGTACAATGCACCCACGCTCTCATGTTACTCCGTCCGTCAAGAAAAGAA
GCAGCACCTTATCTCAGCTCCCTGGGGATAAGTCCAAAGCCTTTGATTTTCCTTAGTGAAGAAACTGAAGCTAGTT
TAGCCTCAGCGAGAGAACAAAAGAGAGAGCAGTATCGTCAGGTAAAAGCACATGTTTCAAGGAAGACGGTAGAG
TGCAGGCTTTTGGCTGGAGTCTGCCTCAGAAGTACAAACAGGTAAACCAATGGTCAAGGTGAAAATAAGATGAAAA
ATTTACCTGTGCCTGTCTATCTCAGACCTCTGGATAAAAAAGATACATCAATGAAGCTGTGGTGTGCTGTTGGAG
TCAATTTATCTGGTGGGAAGACCAGAGATGGTGGTTCTGTTGTTGGAGCAAGTGTATTTTACAAGGATGTTGCTG
GTTTGGATACAGAAGGCAGTAAACAGCGAAGTGCTCTCAGAGTAGTTTAGATAAGTTAGATCAGGAACCTTAAGG
AACAGCAGAAGGAGTTAAAAAATCAAGAAGAATTATCCAGTCTAGTTTGGATCTGTACCAGCACTCATTCGGCTA
CAAAAGTTCCTTATTATTGATGCTGTTCAACCTGGCAACATCCTAGACAGTTTTCAGTGTGCAACTCTCATGTTT
TGTGATTGCAAGTGTGCCAGGTGCACGAGAAACAGACTACCTGCAGGAGAAGATCTTTCAGAATCTGGTCAGG
TAGACAAAGCATCTTTATGTGGAAGTATGACAAGCAACAGCTCAGCAGAGACAGACAGCCTGTTAGGAGGCATCA
CAGTGGTTGGTTGTTCTGCAGAAGGTGTGACGGGAGCTGCCACTTCCCCTAGTACAAATGGTGCTTCTCCAGTGA
TGGATAAACACCAGAAATGGAAGCAGAAAATAGTGAGGTTGATGAAAATGTTCCAACAGCAGAAGAAGCAACTG
AAGCTACAGAAGGGAATGCGGGGTCAGCTGAAGACACAGTGGACATCTCCCAAACCTGGCGTCTACACAGAGCATG
TCTTTACAGATCCTTTGGGAGTTCAGATCCCAGAAGACCTCTCCCAGTGTATCAGTCGAGGTATAATAATGGGT
CATCAACTTAGGCAACTGGGTGAAGTGCACAAATAAAGGAACCAAAATAATCTCAAACAGTCAAAAGATTTC
CTAATTAGTGTCACTGTGGTGGATTAAAAGATACCTATTCTTGTGATA

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FIGURE 4892

MIHNYMEHLERTKLHQLSGSDQLESTAHSRIRKERPISLGIFPLPAGDGLLTPDAQKGGETPGSEQWKFQELSQP
RSHTSLKDELSDV SQGSKATTPASTANS DVATIPTDTPLKEENEGFVKVTDAPNKSEISKHIEVQVAQETRNVS
TGSAENEEKSEVQAI IESTPELDMDKDLSGYKGSSTPTKGIENKAFDRNTESLFEELSSAGSLIGDVDEGADLL
GMGREVENLILENTQLLETKNALNIVKNDLIAKVDELTCEKDV LQGELEAVKQAKLKLEKNRELEEEELRKARAE
AEDARQKAKDDDDSDIPTAQRKRFRVEMARVLMERNQYKERLMELQEAVRWTE MIRASREN PAMQEKKRSSIWQ
FFSRLFSSSSNTTKPEPPVNLKYNAPTSHVTPSVKKRSSTLSQLPGDKSKAFDFLSEETEASLASRREQKREQY
RQVKAHVQKEDGRVQAFGWSLPQKYKQVTNGQGENKMKNLPVPVYLRPLDKKDTSMKLWCAVG VNLSSGGKTRDGG
SVVGASVFYKDVAGLDTEGSKQRSASQSSLDKLDQELKEQQKELKNQEELSSLVWICTSTHSATKVLIIIDAVQPG
NILDSTVCNSHVLCIASVPGARETDYPAGEDLSESGQVDKASLCGSMTSNSSAETD SLLGGITVVGCSAEGVTG
AATSPSTNGASPVMDKPPEMEAEENSEVDENVPTABEATEATEGNAGSAEDTVDISQTGVYTEHVFTDPLGVQIPE
DLSPVYQSRYNNGSSST

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FIGURE 4893A

CTCCGGCGCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGACGCCGCGCCTCGGCCCCATGGA
CGCCCTGTGCGGTTCGCGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTGCGCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATTTGTCGTGGCTACATCATCTCTCCACCTGTCCAAGCTCAAGATGGTCTGCGG
TGTCTGTGTGGTGCCTCTCCTGGGCGGACCTTTTTTACTCTTCCATGGCCTGGTCCATGGCCGGGCCCCCTGC
CCCTGTTTTCTTTGTACCCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGGTCTCATTTATCTTCTGGTTCTGTGTGGTCTGCGCCATCGTCCATT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTGCCCTCATCTTGGCCTGCTTACGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT
CGACCTTAACCCCTACCTTGAGACCAGCGCTGGCTTTCTCTCCCGCTGTTTTCTGGTGGTTACAAAGCTGCT
AAACCTTGACCTCTGCGGGGCTGCTGCGGGCTTACCTTCCCCCAGGATGGCCATCTATGGCTACCGGCATC
CCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCAGATGGTGGTGCAGCAGTCTGAGAGG
CATGGAGGAAGCAGGAAAGCAGACGGCACGACACAAGGCTTACGACGACCTGGGAAAAATGCCTCCGGCGAGG
ACGAGGTGCTGCTGGGTGCCCGGCCAGGCCCGGAAGCCCTCCTTCTGAAGGCCCTGCTGGCCACCTTCGGCT
CCAGCTTCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCATCAATCCACAGCTGCTCAGCA
TCCTGATCAGGTTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCTGGTGGCTGGGTGATGTTCTGT
GCTCCAATGATGCAGTGCCTGATCTTACAACACTATTACCACTACATCTTTGTGACTGGGGTGAAGTTTCGTA
GGATCATGGGTGTCTATCTACAGGAAGGCTCTGGTTATACCAACTCAGTCAAACGTGCGTCCACTGTGGGGGAAA
TTGTCAACCTCATGTGAGTGGATGCCAGCGCTTCTGACCTTGGCCCCCTCCTCAATCTGCTGTGGTGCAGCAC
CCCTGCAGATCATCTTGGCGATCTACTTCTCTGGCAGAACCTAGGTCCCTCTGTCTGGCTGGAGTCTGCTTTCA
TGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCAGGTAAAGCAAATGAAATTGA
AGGACTCGCGCATCAAGCTGATGAGTGAAGATCCTGGACGGCATCAAGGTGCTGAAGCTGTACGCTGGGAGCCCA
GCTTCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCCCCAGCTGCTGCGCACGGCGGCTACCTCCACACCA
CAACCACCTTACCTGGATGTGCAGCCCCCTTCTGGTGACCTGATCACCTCTGGGTGTACGTGTACGTGGACC
CAAACAATGTGCTGGACGCCGAGAAGGCCCTTTGTGTCTGTGCTTGTGTTAATATCTTAAGACTTCCCTCAACA
TGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGATCCAGCAATTCTGAGCCAAG
AGGAACCTGACCCCCAGAGTGTGAAAGAAAGACCATCTCCCCAGGCTATGCCATCACCATACACAGTGGCACCT
TCACCTGGGCCAGGACCTGCCCCCACTCTGCACAGCCTAGACATCCAGGTCCCGAAAGGGGCACTGGTGGCCG
TGGTGGGGCTGTGGGCTGTGGGAAGTCTCCCTGGTGTCTGCCCTGCTGGGAGAGATGGAGAAGCTAGAAGGCA
AAGTGCACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAACTGCACCTTTCAGGAAAACG
TGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTGTGCCTTGCTAGCTGACCTGG
AGATGCTGCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACTGTCTGGGGGCCAGCGGCAGCGGG
TCAGTCTGGCTCGAGCTGTTACAGTATGCGCATATTTCTTGTGCTGGATGACCCACTGTCCGCGGTGGACTCTC
ATGTGGCCAAGCACATCTTTGACCACGTCACTCGGGCCAGAAGGCGTGTGGCAGGCAAGACGCGAGTGTGGTGA
CGCACGGCATTAGCTTCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGGACAGGTGTCTGAGATGGGCC
CGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACTTTCTCTGCAACTATGCCCCGATGAGGACCAAG
GGCACCTGGAGGACAGCTGGACCGCGTTGGAAGGTGCAGAGGATAAGGAGGCACTGCTGATTGAAGACACACTCA
GCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCAGTTTATGAGACAGCTGAGTG
CCCTGTCTCAGATGGGGAGGGACAGGGTCGGCCTGTACCCCGGAGGCACCTGGGTCCATCAGAGAAGGTGCAGG
TGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGGCACTGTGGAGCTCAGTGTGT
TCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCTGTATGTGGGTCAAAGTGGCG
CTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGACAGTAGACAGAACAACACTT
CCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGTGCTGGCAGCCATGGCCATGG
CAGCGGGTGGCATCCAGGCTGCCCCGTGTGTGCACCAGGCACTGCTGCACAACAAGATACGCTCGCCACAGTCCT
TCTTTGACACCACACCATCAGGCCGATCCTGAAGTCTTCTCCAAGGACATCTATGTCGTGATGAGGTTCTGG
CCCCGTGCATCTCATGCTGCTCAATTCCTTCTTCAACGCCATCTCCACTCTTGTGGTGCATCATGGCCAGCACGC
CGCTCTTCACTGTGGTGCCTGCCCCGTGGCTGTGCTCTACACCTTAGTGCAGCGCTTCTATGCAGCCACATCAC
GGCAACTGAAGCGGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTCGGAGACAGTGAAGTGGCA

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FIGURE 4893B

GTGTCATCCGGGCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAAGGTGGATGCCAACCAGAGAA
GCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCGCCTCCCTCGCTCCCTGCTCCTCCAGGAATTCCCAGC
AGGCTCTCTGGTGTTTCAGGGTCCTTGTCCTCCTTTCCCTAAGCAGAAAACGGCCCTGCCCTGCCCTGCCCT
ATTTCTCCTCATCTGATCCCCATAGGTGGCTGAGCATCGGAGTGGAGTTEGTGGGGAACGCGTGGTGCTCTT
TGCTGCACTATTTGCCGTCATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGCCTTTCTGTGTCTACTCCTT
GCAGGTGACATTTGCTCTGAACCTGGATGATACGAATGATGTCAGATTTGGAATCTAACATCGTGGCTGTGGAGAG
GGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGAAGGCAGCCGCCCTCCCGAAGGTGGCC
CCCACGTGGGGAGGTGGAGTTCGGGAATTATTCTGTGCGCTACCGGCCGGGCCTAGACCTGGTGTCTGAGAGACCT
GAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCTGGCAAGTCTTCCATGACCCT
TTGCCTGTTTCGTCATCCTGGAGGCGGCAAAGGGTGAAATCCGCATTGATGGCCTCAATGTGGCAGACATCGGCCT
CCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCCTGTTCTCGGGGACCCCTGCGCATGAACCT
GGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTCCACCTGCACACGTTTGTGAG
CTCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGCGTGGGCCAGAGGCAGCTCGT
GTGCCTGGCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCCACAGCTGCCATCGACCTGGA
GACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGTCCTGACCATCGCACACCGGCT
TAACACTATCATGGACTACACCAGGGTCTGGTCTTGACAAAGGAGTAGTAGCTGAATTTGATTCTCCAGCCAA
CCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCCTAAAATATATTCTGAGATT
TCCTCCTGGCCTTTCTGGTTTTTCATCAGGAAGGAAATGACACCAAATATGTCCGCAGAATGGACTTGATAGCAA
ACACTGGGGGCACCTTAAGATTTTGACCTGTAAAGTGCCTTACAGGGTAACTGTGCTGAATGCTTTAGATGAGG
AAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAGTTAGACTAGTCCCCGGTCT
CCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATTTTATGAAATGACCTCTGTCT
CCCTCTGATTTTTTCATATTTCTAAAGTTTCGTTTCTGTTTTTAATAAAAAGCTTTTCTCCTGGAACAGAA
GACAGCTGCTGGGTGAGGCCACCCCTAGGAACCTCAGTCCTGTACTCTGGGGTGTGCCTGAATCCATTAAAAATG
GGAGTACTGATGAAATAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4894

MDALCGSGELGSKFWDNLSVHTENPDLTPCFQNSLLAWVPCIYLLWVALPCYLLYLRRHCRGYIILSHLSKLMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSALILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
LLNPDPLRGCLPGFTSPQDGHLLWPASPGGEGPLVPKGRGQIPDGGAAAAGMEEAGKADGTTQGFSSSTWEKCLR
RGRGAAGCPAQAPEALLPEGPAHGLRLQLPHQCLLQAYPGPALLHQSTAAQHPDQVYLQPHGPLLVLPGGWADV
PVLHDAVADLTLLPLHLCDWGEVSYWDHGCHLQEGSGYHQLSQTVCVHCGGNCQPHVSGCPALHGPCPLPQSAVV
STPADHPGDLLPLAEPRSLCPGWSRFHGLADSTQRSCGREDARLP GKANEIEGLAHQADE

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FIGURE 4895A

CTCCGGCGCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGCCAGCCGCGCCTCGGCCCCATGGA
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTGCGCCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATGTCTGGCTACATCATCTCTCCACCTGTCCAAGCTCAAGATGGTCTGGG
TGTCTGTGTGGTGCCTCTCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCCTGC
CCCTGTTTTCTTTGTACCCCTTGGTGGTGGGGTACCATGTCTGGCCACCCTGTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGGTCTCTATTATCTTCTGGTTCTGTGTGGTCTGCGCCATCGTCCCATT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTACCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCTTGAGACCAGCGCTGGCTTTCTCTCCCGCTGTTTTTCTGGTGGTTACAAAGATGGC
CATCTATGGCTACCGGCATCCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCAGATGGT
GGTGCAGCAGCTGCTGGAGGCATGGAGGAAGCAGGAAAAGCAGACGGCACGACACAAGGCTTCAGCAGCACTGG
GAAAAATGCCTCCGGCGAGGACGAGGTGCTGCTGGGTGCCCGGCCAGGCCCGGAAGCCCTCCTTCTGAAGGC
CCTGCTGGCCACCTTCGGCTCCAGCTTCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCAT
CAATCCACAGCTGCTCAGCATCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGT
GGCTGGGCTGATGTTCTGTGCTCCATGATGCAGTGCCTGATCTTACAACACTATTACCACTACATCTTGTGAC
TGGGGTGAAGTTTCGTACTGGGATCATGGGTGTCATCTACAGGAAGGCTCTGGTTATCACCACCTCAGTCAAACG
TGCGTCCACTGTGGGGGAAATTGTCAACCTCATGTGAGTGGATGCCAGCGCTTCATGGACCTTGCCCCCTTCT
CAATCTGCTGTGGTACAGACCCCTGCAGATCATCTGGCGATCTACTTCTCTGGCAGAACCTAGGTCCCTCTGT
CCTGGCTGGAGTGCCTTTTATGGTCTTGTGATTCCTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCA
GGTAAAGCAAATGAAATTGAAGGACTCGCGCATCAAGCTGATGAGTGAGATCCTGAACGGCATCAAGGTGCTGAA
GCTGTACGCTGGGAGCCCAGCTTCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCTCCAGCTGCTGCGCAC
GGCGGCTACCTCCACACCACAACCACTTACCTGGATGTGCAGCCCTTCTGGTGACCCTGATACCCCTCTG
GGTGTACGTGTACGTGGACCCAAACAATGTGCTGGACGCGGAGAAGGCCTTTGTGTCTGTGCTCTGTTAATAT
CTTAAGACTTCCCTCAACATGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGAT
CCAGCAATTCTGAGCCAAGAGGAACTTGACCCCAAGAGTGTGGAAGAAAGACCATCTCCCCAGGCTATGCCAT
CACCATAACAGTGGCACCTTACCTGGGCCCAGGACCTGCCCCCACTCTGCACAGCCTAGACATCCAGGTCCC
GAAAGGGGCACTGGTGGCCGTGGTGGGGCTGTGGGCTGTGGGAAGTCTCCCTGGTGTCTGCCCTGTGGGAGA
GATGGAGAAGCTAGAAGGCAAAGTGCACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAA
CTGCACTCTTCAGGAAAACGTGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTG
TGCCTTGTAGCTGACCTGGAGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACTGTCT
TGGGGGCCAGCGGCAGCGGGTCACTGTGGCTCGAGCTGTTTACAGTGATGCCGATATTTTCTTGTGGATGACCC
ACTGTCCGCGGTGGACTCTCATGTGGCCAAGCACATCTTTGACCAGCTCATCGGGCCAGAAGGCGTGTGGCAGG
CAAGACGCGAGTGTGGTGACGCACGGCATTAGCTTCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGG
ACAGGTGTCTGAGATGGGCCCGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACCTTCTCTGCAACTA
TGCCCCCGATGAGGACCAAGGGCACCTGGAGGACAGCTGGACCGCTTGAAGGTGCAGAGGATAAGGAGGCACT
GCTGATTGAAGACACACTCAGCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCA
GTTTATGAGACAGCTGAGTGCCCTGTCTCAGATGGGGAGGGACAGGGTGGCCCTGTACCCCGGAGGCACCTGGG
TCCATCAGAGAAGGTGCAGGTGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGG
CACTGTGGAGCTCAGTGTGTTCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCT
GTATGTGGGTCAAAGTGC GGCTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGA
CAGTAGACAGAACAACACTTCCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGTAT
GCTGGCAGCCATGGCCATGGCAGCGGGTGGCATCCAGGCTGCCCCGTGTGTTGCACCAGGCACTGCTGCACAACAA
GATACGCTCGCCACAGTCTTCTTTGACACCACACCATCAGGCCGATCCTGAACTGCTTCTCCAAGGACATCTA
TGTGCTTGTATGAGGTTCTGGCCCCGTGTCATCTCATGCTGCTCAATTCCTTCTTCAACGCCATCTCCACTCTTGT
GGTCATCATGGCCAGCACGCGCTCTTCACTGTGGTCACTCTGCCCTGGCTGTGCTCTACACCTTAGTGACGCG
CTTCTATGCAGCCACATCACGGCAACTGAAGCGGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTC
GGAGACAGTACTGGTGCCAGTGTCTATCCGGGCCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAA

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FIGURE 4895B

GGTGGATGCCAACCAAGAGCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCCGCCTCCCTCGCTCCCTG
CTCCTCCAGGAATCCCAGCAGGCTCTCTGGTGTTCAGGGTCCTTGTCCCTCCTTTCCCTAAGCAGAAAAGTGG
CCCTGCCCTGCCCTGCCCATTTCTCTCTCATCTGATCCCCCATAGGCGGCTGAGCATCGGAGTGGAGTTCGTG
GGGAAGTGCCTGGTGTCTTTGCTGCACTATTTGCCGTCTCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGC
CTTTCTGTCTCTCTCTCTGAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATCT
AACATCGTGGCTGTGGAGAGGGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGAAGGCAGC
CGCCCTCCCGAAGGTTGGCCCCACGTGGGGAGGTGGAGTTCCGGAATTATTCTGTGCGCTACCGGCCGGGCTTA
GACCTGGTGTGAGAGACCTGAGTCTGCACTGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCT
GGCAAGTCTTCCATGACCTTTGCCTGTTCCGCATCCTGGAGGCGGCAAAGGGTGAAATCCGCATTGATGGCCTC
AATGTGGCAGACATCGCCTCCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCTGTCTCTG
GGGACCCTGCGCATGAACCTGGACCCCTTCGGCAGCTACTCAGAGGAGGACATTGGTGGGCTTTGGAGCTGTCC
CACCTGCACACGTTTGTGAGCTCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGC
GTGGGCCAGAGGCAGCTCGTGTGCTGGCCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCC
ACAGCTGCCATCGACCTGGAGACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGTC
CTGACCATCGCACACCGGCTTAACACTATCATGGACTACACCAGGGTCTGGTCTGGACAAAGGAGTAGTAGCT
GAATTTGATTCTCCAGCCAACCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCC
TAAATATATTCCTGAGATTTCTCTGGCCTTTCTGTTTTTCATCAGGAAGGAAATGACACCAAATATGTCCG
CAGAATGGACTTGATAGCAAACACTGGGGGCACCTTAAGATTTTGCACCTGTAAAGTGCCTTACAGGGTAACTGT
GCTGAATGCTTTAGATGAGGAAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAG
TTAGACTAGTCCCCGGTCTCCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATTT
TATGAAATGACCTCTGTCTCCCTCTGATTTTTTCATATTTTCTAAAGTTTCGTTTCTGTTTTTAATAAAAAGC
TTTTTCCTCCTGGAACAGAAGACAGCTGCTGGGTGAGGCCACCCCTAGGAACTCAGTCTGTACTCTGGGGTGCT
GCCTGAATCCATTAAAAATGGGAGTACTGATGAAATAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4896

MDALCGSGELGSKFWD SNLSVHTENPDLT PCFQNSLLAWVPCIYLVWALPCYLLYLRRHCRGYIILSHLSKLMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIH FALVLSTLILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
MAIYGYRHPLEEKDLWSLKEEDRSQM VVQQLLEAWRKQEKQTARHKASAAPGKNASGEDEVLLGARPRPRKPSFL
KALLATFGSSFLISACFKLIQDLLSF INPQLLSILIRFISNPMAPSWWGFLVAGLMFLCSMMQSLILQHYYHYIF
VTGVKFRGTIMGVIYRKALVITNSVKRASTVGEIVNLMSVDAQRFMDLAPFLNLLWSAPLQIILAIYFLWQNLGP
SVLAGVAFMVLLIPLNGAVAVKMRAFQVKQMKLKDSRIKLMSEILNGIKVLKLYAWEPSFLKQVEGIRQGELOLL
RTAAYLHTTTTTFTWMCSPFLVTLITLWVYVYVDPNNVLD AEFVSVSLEFNILRLPLNMLPQLISNLTQASVSLK
RIQQFLSQEELDPQSVERKTIISPGYAITIHSGTFTWAQDL PPTLHSLDIQVPGALVAVVGPVCGKSSLSVALL
GEMEKLEGKVHMKGSVAYVPQAWIQNCTLQENVLF GKALNPKRYQQTLEACALLADLEMLPGGDQTEIGEKGIN
LSGGQRQRVSLARAVYSDADIFLLDDPLSAVD SHVAKHIFDHVIGPEGVLAKTRVLVTHGISFLPQTDFIIVLA
DGQVSEMGYPYPALLQRNGSFANFLCNYPDEDQGHLEDSWTALEGAEDKEALLIEDTL SNHTDLTDNDPVTYVVQ
KQFMRQLSALSSDGEGQGRPVPRRHLGPSEKVQVTEAKADGALTQEEKAAIGTVELSVFWDYAKAVGLCTTLAIC
LLYVGQSAAAIGANVWLSAWTNDAMADSRQNNTSLRLGVYAALGILQGFLVMLAAMAMAAGGIQAARVLHQALLH
NKIRSPQSFFDTTPSGRILNCF SKDIYVDEV LAPVILMLLNSFFNAISTLVVIMASTPLFTVVILPLAVLYTLV
QRFYAATSRQLKRLESVSRSPIYSHFSETVTGASVIRAYNRSRDFEIIISDTKVDANQRSCYPYIISNRSEAASLA
PCSSRNSQQALWCSGSLSLSPKQKTGPALPLPHFLLI

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FIGURE 4897

GTGCTGCCCTGGCGCTGGCTAGGAGGCAAACGCACGCGGGAAGAGCTGCTACCCATTCCAGGGACCTGCCGCTGC
CCCTCTGAGGGGTCTGCACCTCCTGGGAGCAGGTGGGTCTCTGGGACGAGGGTCCATGGTGGATGGCTCTGGAGA
CGCTCCCGAGGCTGTGCCGTCCCGCTGCTGCACAGGTGCGAGGGTCACCGCAGAGGGCTACTCGGGCTGGGGCTGG
GGCCGAGGGAGCCCCGACTGGAGCCCCATGTGGAACCAAGGATGCAGCTGCTCTGCTAACACGGCAGCCCCATCC
TTCAAGACTGTGACCTCGCCACAGTGGCCCTCAGCCCTCCACCTCCGGCGGGGGCGAGGGCCACCCACCTCCAAG
TCTCCAGCCATGACGACCTCCGCACTCCGGCGCCAGGTGAAGAACATCGTGCACAACCTACTCCGAGGCGAGAAATC
AAGGTGCGCGAGGGCCACCAGCAATGACCCCTGGGGCCCCCTAGTTTCGCTCATGTCCGAGATCGCTGACCTGACC
TTCAACACAGTGGCCTTCACCGAAGTCAATGGGCATGCTGTGGCGGGGCTCAATGACAGCGGCAAGAACTGGCGG
CACGTGTACAAGGCTTAACATTGCTGGACTACCTGCTCAAGACGGGCTCCGAGCGGGTGGCCACCAGTGGCGC
GAGAACCTCTACACCATCCAGACACTCAAGGACTTCCAGTACATCGACCGGACGGAAGGACCGAGGGCGTCAAC
GTGCGCGAGAAGGTCAAGCAGGTGATGGCCCTGCTCAAGGATGAGGAGCGGCTGCGGCAGGAGCGAACCACGCC
CTCAAGACCAAGGAGCGCATGGCACTGGAGGGCATCGGCATTGGCAGTGGGCAGCTGGGCTTCAGCCGCCGTAC
GGCGAGGACTACAGCCGCTCCCGGGGCTCCCCGTCTCTACAACCTCCTCCTTTCGTCACCCGCTATACCTCC
GACCTGGAGCAGGCCCGGCCCTCAGACGTGAGGGGAAGAGGAAGTGCAGCTGCAGCTGGCCCTCGCCATGAGCCGT
GAGGAGGCAGAGAAGCCTGTCCCCCAGCCTCCACAGGGACGAGGACCTGCAGCTGCAGCTGGCTCTGCGCCTG
AGCCGGCAGGAGCACGAGAAGGAGGTGAGGTCTGGCAGGGTGATGGTCCCCCATGGCCAATGGTGCAGGGGCC
GTGGTCCACCATCAGCGGGACAGAGAGCCTGAGAGAGAAGAGAGAAAGGAGGAGGAGAAGCTAAAAACCAGCCAG
TCCTCCATCCTGGACTTGGCTGACATCTTCGTACCTGCCCTGGCCCCGCCCTCCACACACTGCTCTGCTGACCCA
TGGGACATCCCAGGTTTTAGGCCGAACACAGAGGCCAGTGGATCCTCCTGGGGGCCCTTCTGCAGACCCCTGTCT
CCGATCCCCCTCAGGAACCGTCTGTCCCGAAGCCAGCCCTGGGATCTGACTCCCATGCTCTCCTCCTCTGAGCCC
TGGGGCAGGACCCCACTGCTGCCTGCTGGGCCCCCACCACAGACCCCTGGGCCCTGAACCTCTCCCCACCACAAA
CTCCCCAGCACTGGGGCTGACCCTTGGGGAGCCTCCCTGGAGACCTCCGACACACCTGGTGGTGCCTCGACCTTT
GACCCATTTGCCAAACCTCCAGAATCCACAGAGACCAAGGAGGGGCTGGAGCAGGCCCTGCCCTCTGGGAAGCCC
AGCAGCCCTGTGGAGCTGGACCTGTTTGGAGACCCAGCCCCAGTTCCAAGCAAAATGGCAGGAAGGAGCCAGAT
GCCCTGGACCTGGGCATACTAGGGGAAGCACTAACCCAGCCAAGCAAGAGGCCCCGAGCTTGCCGGACTCCCGAG
TCCTTCCTGGGTCCCTCAGCTTCCTCCTTGGTCAACCTTGACTCGTTGGTCAAGGCACCCAGGTTGCAAAGACC
CGGAACCCCTTCCTGACAGGTCTCAGCGCTCCGTCCCCACCAACCCGTTTCGGCGCGGGCGAGCCGGGCAGGCCG
ACGCTAAACCAGATGCGCACCGGCTCGCCGGCGCTGGGCCTGGCAGGCGGGCCTGTGGGGGCGCCCCCTGGGCTCC
ATGACCTACAGCGCCTCTCTGCCCCCTCCCGCTCAGCAGCGTGCCAGCTGGCTTGACCTCCCCGCCTCGGTTAGC
GTCTTCCCGCAGGCCGGAGCCTTCGCACCGCAGCCGCTGCTGCCACGCGGAGCTCAGCCGGGCGCGGCCCCCG
CCCCCGCAGACCGGCACCAACCCCTTCCTCTGAGCCCCGCCCGTCCCATACCGGCTGCGCCTGCGCCGGACGC
TCCGCGGCCCGCCTCCGGACCCGGGGCTGGGCGGGGCGCCGGTGCTAGTGGAACGCCGAGCCAGTGGCGGCTGG
TATCCCGCGGGCGCTCTGGAAGCTGGACGCGGACCACGGCCCGGAGCTAGAACTGAACGCCCGCATAATAAAG
ACTGGAACCTCGTTCTCAGCTCTCACCAAGTGGACTTTTTCGGGGGTGTGGCGGCCGGGTCTCGACCACAGCGT
GGATCACCGGCTGTTTAGGAACTGCAGCTGCACAACGTGGGGTGCAAACTGCCCGCTTCCTTTACAGCTCTT
CTCAACCCCTACCTCCATCCCCGTCACCCAGGCACCTTCGCTTCCAGATGCTGCCAGGCTGTCACTCAATTCGG
TCATTTCAATTCATTTATCACACATGGGCACTGGGGTGGGCTAACAGCAAGAGACAATAGGCCCTTTGTTCTATT
TATTGGGTACTGCTTACGTGCTAAGCAGATCAGTTTATTTAATGCTTGCAACGACTCTCTGAGGTAGAAAATATT
GTTAATTCCGTTTCAGGATCCCGGCTACATAATCTGTGGGGCTCAATACAAAATAAAAATGTAGGGGCTCCTTGTTC

C

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FIGURE 4898

GTGATCCCTGCGCGCTCTCCTGCTCGGGTCAGTGCGCCGCGCTGCGCTGGGCGCC**ATGG**CGCTCCCCGGAGCCC
GGGCTCGCGGCTGGGCGGCAGCAGCCAGAGCGGCCAGAGGCGCCGCCGCTGGAGAACGCAGGAGGGTCCCCGA
GTCTGAGCCTGCGGGCCGGCGCGCGGCGCTTTACGTACACTGGCCTTACTGCGAGAAGCGCTGCAGTTACTGCA
ACTTCAACAAGTACATCCCTCGCGCCTGGAGGAGGCTGCCATGCAGAAGTGTCTGGTGACCGAAGCTCAGACGC
TGCTGCGGCTCAGCGGGGTGCAACGGGTGGAGTCTGTGTTCTTTGGTGGGGGGACCCCCAGTCTAGCCAGTCCCC
ACACGGTGCGTGTCTGCTGGAGGCTGTGGCACAGGCAGCCACCTGCCTGCAGACTTGGAAGTCACATTGGAGG
CTAATCCTACTTCAGCTCCGGGCTCCAGACTGGCAGAGTTGGGGGCAGCAGGGGTAAACAGGTTGTCTATAGGCC
TCCAGTCCCTAGATGACACTGAGCTCCGGCTGTTGGGACGGACGCACTCGGCCTGCGATGCTCTGCGGACGCTGG
CAGAGGCCCCGGCGCCTCTTTCCCGGGCGCGTGTCTGTAGACTTGATGCTGGGGCTGCCGGCACAGCAGGTGGGGC
CGTGGCTTGGGCAGCTGCAGGAACCTGCTGCACCACTGTGATGACCACCTCTCCCTCTACCAGTGTCCCTGGAGC
GGGGCACCGCACTCTTCGCCCAGGTGCAGCGGGGTGCCCTTCCAGCCCCTGACCCGGAGCTCGCAGCTGAGATGT
ACCAGAGGGGCCGGGCTGTCTTCGGGAGGCTGGCTTCCACCAGTATGAGGTCTCCAACCTTTGCCCGGAATGGGG
CGCTCAGTACCCACAATTGGACTTACTGGCAGTGTGGTCACTACCTTGGCGTTGGGCTGGGGCCCATGGACGAT
TTATGCCCCAGGGGGCTGGAGGCCACACCCGGGAGGCTCGGATCCAGACACTGGAGCCTGACAACCTGGATGAAGG
AGGTGATGCTGTTTGGCCATGGCACCCGGAAGCGTGTCCCCCTGGGCAGGCTGGAGCTGCTGGAGGAAGTTTGG
CCCTGGGGCTACGCACCGATGTGGGGATCACTACCAGCACTGGCAGCAGTTTGAGCCCCAGCTGACCCTGTGGG
ATGTGTTTGGAGCGAACAAGGAGGTGCAGGAGCTGCTGGAGCGGGGCTACTGCAGCTGGATCACAGGGGTCTTC
GGTGTCTCTGGGAGGGTCTGGCTGTGCTGGACTCTCTCTTGTGCTGACCCTCCTGCCTCAGCTCCAAGAAGCCTGGC
AGCAGAGAACCCCTCCCTGTGCCAGGAGGAT**GAC**AAAAATGTTCTGTGTTCCAGGGTAATGCCAGGTGGGTT
TTGAGAGCTGGGTCCGTACTGCAGACATCTCTCTCCGTTGTGGGTGCCGTCTCTGCTCCTTGTGGTTATTGCT
CAGCCCTGGCATCCCCAGGGGAATGGCAGCAGTGAGGTAGATGGGAGGACATTTCTGGTCAGGGAACCTGGCATCC
CATTACAGATCTCAGGACTCACAGGCCAACATGTGTTCCATGGCTGGGAATTGCCTACCACCCACATCAGCTTCT
GTTTACCTTTTTGGCATCAAATAATGAACAGTGTGTTGGAATCTTTCTACAGGCAATTACCTCCCCAAGAGAAGC
CTTCCTTATTTTGGAGTAAGGTCCTAAGATAGCTGGATGAATCAGGAAAACCATGTCCCCTCTAGGTATTATTAA
TATTAGCAGGAAGGGATCTACTATAGGAATGAAGTATTTATAAACCCTGAAAGGGATAGAGAAGTGAACATTGG
AGAAAGCCAGTAGCAACTGTGAGAAATCAGCAACTTGCAAGGAGGCACAGAAAACCTCCTGCTGATGGTCTCAGCTT
CCAGCAGCACAAAAGCAGATGATGTACTGGAAAATGCTCAGAAGATGCTACAAAACCTCATGCCTACTGTCTGCC
ACTGCTGGAGAAGGAATCATGGTTTCTAGAAGTGCCTCTCATTAGTGGACTTTAAAGCAAATCCTGGCTGGCAGG
AAATCTGAGGAATATAGCTCTTAGGCTTCCAGCCTCTACCATGCAGGAGAGAACACAGAAGGACTGATGTATGT
TGGTGGATCCATGTATGTGTCCAGCACAGCGGCCTGCTGGACTCTGAGAACTGGGAAAGATCAGAGCAAGCCTTG
CCTCTTATCTTCGGGAAACCAGAATATGTTTGGGGTGGTAGGAGCCACACAGACTCTTCTGAGCCCCCTCACTCA
CTTCCTTCCCCCTGTGCCTTTCCTTTGAGAGTGAAGGTGGGTGGAGTTGACCAGAGAAAGGGGAGAGAATTGCGG
AAAGACCCAAAGTGTGTAATTCTTCTTTGTCTTTTACCTACAGAAATGGTCACATGGTTCTATTAAATAGC
CTAATAAACACATCTGGAGCCTGT

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FIGURE 4899

MALPGARARGWAAAAAAQRRRRVENAGGSPSPEPAGRRRAALYVHWPYCEKRCSYCNFNKYIPRRLEEAAMQKCL
VTEAQTLRLRLSGVQRVESVFFGGGTPSLASPHTVAAVLEAVAQAAHLPADLEVTLLEANPTSAPGSRLAEFGAAGV
NRLSIGLQSLDDTELRLGRTHSACDALRTLAEARRLFPGRVSVDLMLGLPAQQVGPWLGGQLQELLHHCDDHLSL
YQLSLERGTLFAQVQRGALPAPDPELAAEMYQRGRAVLREAGFHQYEVSNFARNGALSTHNWTYWQCGQYLGVG
PGAHGRFMPQGAGGHTREARIQTLEPDNWMKEVMLFGHGTRKRVPLGRLELLEEVLAALGLRTDVGITHQHWQQFE
PQLTLWDVFGANKEVQELLERGLQLDHRGLRCSWEGLAVLDSLLLTLPLQEAQQRTSPSPVPGG

[illegible]

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FIGURE 4901

MKAVQADQERERQRRLEVEREAEKKREAKQRAKEAQERELRKREKAEKERRRKEYDALKAAKREQEKKPKKEAN
QAPKSKSGSRPRKPPPRKHTRSWAVLKLLLLLLFGVAGGLVACRVTELQQQPLCTSVNTIYDNAVQGLRRHEIL
QWVLQIDSQQ

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FIGURE 4902A

AGGTGAACAGGTCTCTACGCCCAGCTCCGCGCCCTCACGCGCTCTCGCCGGGACCCCGCTTCCGCTGGCAGCCAT
GGGCCCCGCCCCAGCCGCGCGCCCCGCGCCCCACGCTGATGCTCTGTGCGCTCGCCTTGATGGTGGCGGCCGG
CGGCTGCGTCTCTCCGCTTCAACCTGGATACCCGATTCTGGTAGTGAAGGAGGCCGGGAACCCGGGCAGCCT
CTTCGGCTACTCGGTGCGCCCTCCATCGGCAGACAGAGCGGCAGCAGCGCTACCTGCTCTGGCTGGTGGCCCCCG
GGAGCTCGCTGTGCCCCGATGGCTACACCAACCGGACTGGTGCTGTGTACCTGTGCCCCACTACTGCCCCACAAGGA
TGACTGTGAGCGGATGAACATCACAGTGAAAAATGACCTGGCCATCACATTATTGAGGACATGTGGCTTGGAGT
GACTGTGGCCAGCCAGGGCCCTGCAGGCAGAGTTCTGGTCTGTGCCACCCTACACCCAGGTGCTGTGGTCAGG
GTCAGAAGACCAGCGCGCATGGTGGGCAAGTGCTACGTGCGAGGCAATGACCTAGAGCTGGACTCCAGTGATGA
CTGGCAGACCTACCACAACGAGATGTGCAATAGCAACACAGACTACCTGGAGACGGGCATGTGCCAGCTGGGCAC
CAGCGGTGGCTTACCCAGAACACTGTGTACTTCGCGCCCCCGGTGCCTACAACCTGGAAAGGAAACAGCTACAT
GATTACGCGCAAGGAGTGGACTTATCTGAGTATAGTTACAAGGACCCAGAGGACCAAGGAAACCTCTATATTGG
GTACACGATGCAGGTAGGCAGCTTCATCCTGCACCCCAAAAACATCACCATTGTGACAGGTGCCCCACGGCACC
ACATATGGGCGCGGTGTCTTGTGAGCCAGGAGGACGGCGGAGACCTGCGGAGGAGGCAGGTGCTGGAGGGCTC
GCAGGTGGGCGCCTATTTTGGCAGCGCCATTGCCCTGGCAGACCTGAACAATGATGGGTGGCAGGACCTCTGGT
GGGCGCCCCCTACTACTTCGAGAGGAAAGAGGAAGTAGGGGGTGCCATCTATGTCTTCATGAACCAGGCGGGAAC
CTCCTTCCCTGCTCACCCCTCACTCTTCTTCATGGCCCCAGTGGCTCTGCCTTTGGTTTATCTGTGGCCAGCAT
TGGTGACATCAACCAGGATGGATTTAGGATATTGCTGTGGGAGCTCCGTTTGAAGGCTTGGGCAAAGTGTACAT
CTATCACAGTAGCTCTAAGGGGCTCCTTAGACAGCCCCAGCAGGTAATCCATGGAGAGAAGCTGGGACTGCCTGG
GTTGGCCACCTTCGGCTATTCCCTCAGTGGGCAGATGGATGTGGATGAGAACTTCTACCCAGACCTTCTAGTGGG
AAGCCTGTGACACCATTGTGCTGCTGCAGGGCCCCGGCCGTCATCAACATCGTCCACAAGACCTTGGTGCCCA
GGCAGCTGTGCTGGACCCTGCACCTTGACCGCCACCTCTGTGTGCAAGTGGAGCTGTGCTTGTCTTACAACC
AGAGTGCCGGGAACCCCACTACAGGCGAAACATCACCTGGCCTACACTCTGGAGGCTGACAGGGACCGCCGGC
CGCCCCGGCTCCGCTTTGCCGGCAGTGAGTCCGCTGTCTTCCACGGCTTCTTCTCCATGCCGAGATGCGCTGCC
AGAAGCTGGAGCTGCTCCTGATGGACAACCTCCGTGACAACTCCGCCCCATCATCTCCATGAACCTACTCTT
TACCTTTGCGGATGCCCGATGCCCCCCGGCTGGGGCTGCGGTCCCTGGACGCTACCCGATCTCAACCAGGCAC
AGGCTCTGGAGAACCACACTGAGGTCCAGTTCAGAAAGGAGTGGGGCTGACAACAAGTGTGAGAGCAACTTGC
AGATGCGGGCAGCCTTCGTGTGAGAGCAGCAGAGAAGCTGAGCAGGCTCCAGTACAGCAGAGACGTCCGGAAT
TGCTCCTGAGCATCAACGTGACGAACACCCGACCTCGGAGCGCTCCGGGAGGACGCCCACGAGCGCTGCTCA
CCCTGGTGGTGCCTCCCGCCTGCTGCTGTCTCAGTGCGCCCCCCCGGGGCTGCCAAGCTAATGAGACCATCT
TTTGGAGCTGGGAACCCCTTCAAACGGAACCAGAGGATGGAGCTGCTCATCGCCTTTGAGGTATCGGGGTGA
CCCTGCACACAAGGGACCTTCAGGTGCAGCTGCAGCTCTCCACGTGAGTACCAGGACAACCTGTGGCCCATGA
TCCTCACTCTGCTGGTGGACTATACACTCCAGACCTCGCTTAGCATGGTAAATACCCGGCTACAAAGCTTCTTTG
GGGGGACAGTGATGGGTGAGTCTGGCATGAAACTGTGGAGGATGTAGGAAGCCCCCTCAAGTATGAATTCCAGG
TGGGCCCCAATGGGGGAGGGCTGGTGGGCCTGGGGACCCTGGTCTAGGTCTGGAGTGGCCCTACGAAGTCAGCA
ATGGCAAGTGGCTGCTGTATCCACGGAGATCACCGTCCATGGCAATGGGTCTTGGCCCTGCCGACCACCTGGAG
ACCTTATCAACCCTCTCAACCTCACTCTTCTGACCCTGGGGACAGGCCATCATCCCCACAGCGCAGGCGGCGAC
AGCTGGATCCAGGGGAGGCCAGGGCCCCCACCCTGTCACTCTGGCTGCTGCCAAAAAGCCAAGTCTGAGACTG
TGCTGACCTGTGCCACAGGCGGTGCCACTGTGTGTGGCTAGAGTGCCCCATCCCTGATGCCCCCGTTGTACCA
ACGTGACTGTGAAGGCACGAGTGTGGAACAGCACCTTCATCGAGGATTACAGAGACTTTGACCGAGTCCGGGTAA
ATGGCTGGGCTACCCTATTCTCCGAACCAGCATCCCCACCATCAACATGGAGAACAGACCAGTGGTCTCTGTG
TGGACATTGACTCGGAGCTGGTGGAGGAGTCCGGCCGAAATCGAGCTGTGGCTGGTGTGGTGGCCGTGGGTG
CAGGGCTGCTGCTGCTGGGGCTGATCATCCTCCTGCTGTGGAAGTGTGACTTCTTAAAGCGGACCCGCTATTATC
AGATCATGCCCAAGTACCACGAGTGGGATCCGGGAGGAGGAGCGCTACCCACCTCCAGGGAGCACCTGCCCA
CCAAGAAGCACTGGGTGACCAGCTGGCAGACTCGGGACCAATACTACTGACGTCTCCCTGATCCCAACCCCTCC
TCCCCAGTGTCCCCTTTCTCTCTATTATCATAAGTTATGCCTCTGACAGTCCACAGGGGCCACCCTTTGGC
TGGTAGCAGCAGGCTCAGGCACATACACCTCGTCAAGAGCATGCATGCTGTCTGGCCCTGGGGATCTTCCCAC
AGGAGGGCCAGCGCTGTGGACCTTACAACGCCGAGTGCATGCTTCTGTGCCCTAGATGCAGTGGGGCCAC
TGCTCGTGGACTGTGCTGGTGCATCACGGATGGTGCATGGGCTCGCCGTGTCTCAGCCTCTGCCAGCGCCAAAAAC

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FIGURE 4902B

AAGCCAAAGAGCCTCCCACCAGAGCCGGGAGGAAAAGGCCCTGCAATGTGGTGACACCTCCCCCTTTCACACTG
GATCCATCTTGAGCCACAGTCACTGGATTGACTTTGCTGTCAAACTACTGACAGGGAGCAGCCCCGGGCCGCT
GGCTGGTGGGCCCCAATGACACCCATGCCAGAGAGGTGGGGATCCTGCCTAAGGTTGTCTACGGGGCACTTGG
AGGACCTGGCGTGCTCAGACCCAACAGCAAAGGAAGTAAAGAAAGGACCCAGAACGGCTTGCTTTCTGTCATCT
CTGTGAAGCCTCTCTCCTTGGCCACAGACTGAACTCGCAGGGAATGCAGCAGGAAGGAACAAAGACAGGCAAACG
GCAACGTAGCCTGGGCTCACTGTGCTGGGGCACGGCGGGATCCTCCACAGAGAGGAGGGGACCAATTCTGGACAG
ACAGATGTTGGGAGGATACAGAGGAGATGCCACTTCTCACTCACCCTACCAGCCAGCCTCAGAAGGCCCCAGAG
AGACCCTGCAAGACCACGGAGGGAGCGACACTTGAATGTAGAATAGGCAGGGGGCCCTGCCCCACCCCATCCAGC
CAGACCCACGCTGACCATGCGTCAGGGGCCCTAGAGGTGGAGTTCTTAGCTATCCTTGGCTTTCAGAGCCAGCCT
GGCTCTGCCCCCTCCCCATGGGCTGTGTCCTAAGGCCATTGAGAAGCTGAGGCTAGTTCCAGAAAACCTCTC
CTGACCCCTGCCTGTTGGCAGGCCCACTCCCCAGCCCCAGCCCTTCCATGGTACTGTAGCAGGGGAATTCCCTC
CCCCCTCTGTGCCTTCTTTGTATATAGGCTTCTCACGGCGACCAATAAACAGCTCCCAGTTTGT

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FIGURE 4903

GACAATATCAGGTGAGCTGTGGAGGTGGGGTCCTTGAAGCTGGATGACAGCAGCTGGCAAGGGGATAAGAGAGC
AGTGAGCCCCCTCCCTCAAGGAGGTCTGGCTTTATCCATAGACAGGGCCCTCTGAGGTGGGGCTGAGGTACAAAGG
GGGATTGAGCAGCCCAGGAGAAGAGAGATGGGGTTCCCTTCTTCTCTCTCAGATGCATGGTGGACTTAGGA
CCTTGCTGGGGCTGGGGTCTCACTGCAGAGATGAAGCTGCTTCTGGCCCTAGCAGGGCTCCTGGCCATTCTGGCC
ACGCCCCAGCCCTCTGAAGGTGCTGCTCCAGCTGTCTGGGGGAGGTGGACACCTCGTTGGTGCTGAGCTCCATG
GAGGAGGCCAAGCAGCTGGTGGACAAGGCCTACAAGGAGCGGCGGAAAGCATCAAGCAGCGGCTTCGCAGCGGC
TCAGCCAGCCCCATGGAATCCTATCCTACTTCAAGCAGCCGGTGGCAGCCACCAGGACGGCGGTGAGGGCCGCT
GACTACCTGCACGTGGCTCTAGACCTGCTGGAGAGGAAGCTGCGGTCCCTGTGGCGAAGGCCATTCAATGTCACT
GATGTGCTGACGCCCCGCCAGCTGAATGTGTTGTCCAAGTCAAGCGGCTGCGCTACCAGGACGTGGGGGTGACT
TGCCCGGAGCAGGACAAATACCGCACCATCACCGGGATGTGCAACAACAGACGCAGCCCCACGCTGGGGGCCCTCC
AACCGTGCCCTTTGTGCGCTGGCTGCCGGCGGAGTATGAGGACGGCTTCTCTTCCCTACGGCTGGACGCCCCGG
GTCAAGCGCAACGGCTTCCCGGTGGCTCTGGCTCGCGCGGTCTCCAACGAGATCGTGGCTTCCCCACTGATCAG
CTGACTCCGGACCAGGAGCGCTCACTCATGTTTCATGCAATGGGGCCAGCTGTTGGACCAGACCTCGACTTCACC
CCTGAGCCGGCCGCCCGGGCCTCCTTCGTCACTGGCGTCAACTGCGAGACCAGCTGCGTTACGACGCCCGCCTGC
TTCCCGCTCAAGATCCCGCCCAATGACCCCCGCATCAAGAACCAAGCCGACTGCATCCCGTTCTTCCGCTCCTGC
CCGGCTTGCCCCGGGAGCAACATCACCATCCGCAACCAGATCAACGCGCTCACTTCCCTCGTGGACGCCAGCATG
GTGTACGGCAGCGAGGAGCCCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGGCTGCTGGCCGTCAAC
CAGCGCTTCCAAGACAACGGCCGGGCCCTGCTGCCCTTTGACAACCTGCACGATGACCCCTGTCTCCTCACCAAC
CGCTCAGCGCGCATCCCTGCTTCTGGCAGGGGACACCCGTTCCAGTGAGATGCCCGAGCTACCTCCATGCAC
ACCTCTTACTTCGGGAGCACAACCGGCTGGCCACAGAGCTCAAGAGCCTGAACCTAGGTGGGATGGGGAGAGG
CTCTACCAGGAAGCCCCGAAGATCGTGGGGCCATGGTCCAGATCATCACTTACCGGGACTACCTGCCCCCTGGTG
CTGGGGCCAACGGCCATGAGGAAGTACCTGCCACGTACCGTTCTTACAATGACTCAGTGGACCCACGCATCGCC
AACGTCTTACCAATGCCTTCCGCTACGGCCACACCCTCATCAACCCCTTCATGTTCCGCCTGGACAATCGGTAC
CAGCCCATGGAACCCAACCCCGTGTCCCCCTCAGCAGGGTCTTTTTTGCCTCCTGGAGGGTCTGTCTGGAAGGT
GGCATTGACCCCATCTCCGGGGCTCATGGCCACCCCTGCCAAGCTGAATCGTCAGAACCAATTCAGTGGAT
GAGATCCGGGAGCGATTGTTTGAAGGATCATGAGGATTGGGCTGGACCTGCCTGCTCTGAACATGCAGCGCAGC
AGGGACCACGGCCTCCAGGATACAATGCCTGGAGGCGCTTCTGTGGGCTCCCGCAGCCTGAAACTGTGGGCCAG
CTGGGCACGGTGCTGAGGAACCTGAAATTGGCGAGGAACTGATGGAGCAGTATGGCAGCCCCAACACATCGAC
ATCTGGATGGGGCGGTGTCCGAGCCTCTGAAGCGCAAAGGCCGCGTGGGCCCACTCCTCGCCTGCATCATCGGT
ACCCAGTTCAGGAAGCTCCGGGATGGTGATCGGTTTTGGTGGGAGAACGAGGGTGTGTTTACGATGCAGCAGCGA
CAGGCCCTGGCCAGATCTCATTGCCCCGATCATCTGCGACAACACAGGCATCACCCCGTGTCTAAGAACAAC
ATCTTCATGTCCAATCATATCCCCGGGACTTTGTCAACTGCAGTACACTTCTGCATTGAACCTGGCTTCTTG
AGGGAAGCCTCCTAGAGGCCAGGTAAGGGGGTGCAGCAGTGAAGGGTATATCTGGGCTGGCCAGTTGGAACCAG
GAGATCTCCTTGCCCTAGATGAGCCAGCCCTGTTCTGGGTGCAGCTGAGAAAATGAGTGACTAGACGTTTCAAT
GTGTGCTCATGTATGTGCGAAGTATATAAATTGGCTTTTTCATGCGTGTGTGTTGTCTGAACATGGGGAGTGTTC
ATGGGTTATGTGTATGTGCCATTTATGTGAGTGTGTGTTTGTGCTGATGAGAATACTGAGTATGTGGAAGGCAGC
AGAGCGGACTGGTGAGGAGCACAGCTCAGGAAGTACTGAGTGCCTGGGTTCCAATCCTGGCTCTGTGGCTTGCTAGC
TATGTGACCTTGAGCAAATTACCTCCTTAAACAAGAGTTTTCTTCTTGTAAATTACATCTGTATGGTTTCTT
GGAGGGCCCACTTGTATCCTCTGGTTCTTCAATTTATTGAGCACCTACTACATGCAAGGCAGTGTACTAGGCGTGA
GAAGCATATAGAGGCAAGAAAGAGATACCAAGATGCCATCTGTGTCCTGGTTAGCAGAGCTGGACCAGTGGTGCC
TTGGAGGGATAAGCCAGCTGCAGCTGGGCTGTGTGGTTGACTTATGGGCCAGCCAGGCTCAGGCCATGGC
TCCCTTTTTCTTCTCACCCTGATTCTGTGTTATTCACTGAAGTTCTCCTGAAGAGGAAGTGGCCCTGTTGGC
CTTCTGTACCATTTATTTGCTCCCAATGTTTATGATAATAAAGGCACCGCTGATGGGGACCTCC

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FIGURE 4904

MGVPPFFSSLRCMVDLGPCWAGGLTAEMKLLLALAGLLAILATPQPSEGAAPAVLGEVDTSVLSSMEEAKQLVDK
AYKERRESIKQRLRSGSASPMELLSYFKQPVAATRTAVRAADYLHVALDLLERKLRSIWRRPFNVTDVLTQAQLN
VLSKSSGCAYQDVGVTCPEDQKYRTITGMCNNRRSPTLGASNRAFVRWLPAYEDGFSLPYGWTPGVKRNGFPVA
LARAVSNEIVRFPTDQLTPDQERSLMFMQWGQLLDHDLDTPEPAARASFVTGVNCETSCVQPPCFPLKIPPND
PRIKNQADCIPFFRSCPACPGSNITIRNQINALTSFVDASMVYGSEEPLARNLRNMSNQLGLLAVNQRFQDNGRA
LLPFDNLHDDPCLLTNRSARIPCFLAGDTRSSEMPELTSMHTLLLREHNRLATELKSINPRWDGERLYQEARKIV
GAMVQIITYRDYLPVLGPTAMRKYLPTYRSYNDSDPRIANVFTNAFRYGHTLIQPFMFRLDNRYQPMENPRV
PLSRVFFASWRVVLEGGIDPILRGLMATPAKLNQONQIAVDEIRERLFEQVMRIGLDLPALNMQRSRDHGLPGYN
AWRRFCGLPQPETVGLGTVLRNLKLARKLMEQYGTNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFRKL RDG
DRFWWENEGVFSMQQRQALAQISLPRIICDNTGITTVSKNNIFMSNSYPRDFVNCSTLPALNLAWSREAS

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FIGURE 4905

TTCTTCCGCTCCTGCCCCGGCTTGCCCCGGGAGCAACATCACCATCCGCAACCAGATCAACGCGCTCACTTCCTTC
GTGGACGCCAGCATGGTGTACGGCAGCGAGGAGCCCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGG
CTGCTGGCCGTCAACCAGCGCTTCCAAGACAACGGCCGGGCCCTGCTGCCCTTTGACAACCTGCACGATGACCCC
TGTCTCCTCACCAACCGCTCAGCGCGCATCCCCCTGCTTCTGGCAGGTGAGCTTTGGGGTGGGGACCAGAGGTGG
CATAGGAGATGTTCCCTGTTGGAGCCACAGGGACACCCGTTCCAGTGAGATGCCCGAGCTCACCTCCATGCACAC
CCTCTTACTTCGGGAGCACAAACGGCTGGCCACAGAGCTCAAGAGCCTGAACCCTAGGTGGGATGGGGAGAGGCT
CTACCAGGAAGCCCGAAGATCGTGGGGGCCATGGTCCAGGTAGGCCGTCTTGAACACCGGGCACACGGGATCCA
GATGTGTCCCTGCAACATCCTAGCTGTGTGACCTTGGGCAAGTTCCTAACGCTCCTGAGCCTTGCCCTTCTTCATC
CATGAGGCTGTAAGGATTATAATACATATATGAAAAACACCTTTCAGATAGTAAGTGCTTGACAAAGCCTCCTTCC
CTTCCCTCTCCTTCTTCGCGAGGTTTGCTCCCTGCAGTCTTCTTTCTGTGGGCTGTATTGGTGTGGGAGGGT
TGAATGTTTGGTTTAGCGCCCAAGTAGCTGTTTCACTAAATTTCTTCTTCCCTCCATCTCACTGTCACTCTTAGCTC
CTTTACCCACTCACCTCTTCTTTTTTAAATTAATAAATAATATAGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC
CAGCACTTTGGGAGGCGGAGGCGGGTGGATCACGAGGTGAGGAGATCAAGACCATGCTGGCTAACACGGTGAAAC
CCCATCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATGGCGTGAACCTGGCTGGAGTGCAGTGGTGCATCTTGGCTCACTGCAACCTCCACCTTTCAG
GCTCAAGCCATTCTCCC

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FIGURE 4906

AGCCAGTTTGAAGTAGATCTGTACCAAAATGAAACAGCCTGTGAGAGTCCTTTGGATTATCAGTACCGTCAGGAG
ATCCTGAAGCTGGAGAATTTCGGGTGGCAAGAAAAACCGACGAATCTTTACCTACACTGACTCTGATAGATACACC
AATTTGGAGGAGCACTGTGAGAGAATGACCCTGCAGCCAGCGAGGTGCCTTCATTCTTTGGTCGAGCGAATGGCA
AATGTCAGGCGTCGCCGGCAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACGCATCGTCACCTGGGAG
CCCTCAGAAGAGTTTGTGAGGAACAACCACGTCATTAACACCCCTCTTCAGACAATGCACATCATGGCAGACCTG
GGGCCCTATAAAAAGCTTGGCTATAAGAAGTATGAACATGTCTGTGTACTCTGAAGGTGGATAGCAATGGTGTG
ATCACAGTAAAGCCTGACTTCACGGGCCTCAAAGGACCCTACAGGATTGAGACGGAGGGGGAGAAGCAGGAGCTG
TGGAATATACGATCGACAATGTTTCCCCCAGCACAGCCGGAGGAGGAGCGGGAACGGCGAGTGTTCAAG
GATCTTTATGGCCGGCACAAAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGATGACTGTCCAGGTGCC
CTCCGGCTCTTTGTAAATGGAGAGGTGCTTTTCAGCCCAAGGCTATGAGTATGACAATCTCTACGTCCACTTCTTT
GTAGAATTGCCAACTGCTCACTGGTCAAGCCAGCATTCCAGCAGCTCTCAGGAGTAACACAGACCTGCACCACC
AAGTCCCTGGCAATGGACAAGGTGGCTCATTCTCCTACCCATTACGTTTGAAGCCTTCTTCTCCATGAGGAT
GAATCTTCTGATGCACTCCCGGAGTGGCCTGTGCTCTACTGTGAGGTCTCTCGCTGGACTTCTGGCAGAGGTAC
CGTGTGGAAGGCTATGGGGCTGTGGTGTCTGCCACTCCAGGCTCACACACCCTGACAGTCTCCACGTGGAGA
CCTGTGGAGCTTGGCACGGTGGCTGAGCTGAGGAGGTTTTTTCATTGGCGGTTCTCTGGAAGTGGAGGACCTCTCC
TATGTACGGATAACCAGGATCCTTCAAGGGGGAACGCCTGAGCCGCTTTGGACTCCGCACAGAGACCACAGGCACT
GTCACCTTCCGCTTGCCTGTCTGCAGCAGTCCAGGGCCTTCATGGAATCGAGCTCCCTTCAGAAAAGGATGCGG
AGTGTGTTGGACCGTCTGGAAGGGTTTCAGCCAGCAGAGTTCCATTACAATGTGCTAGAGGCCTTCCGTCGAGCC
CGGCGCCGCATGCAGGAGGCCCGGGAAGCCTCCCGCAGGACCTAGTGAGCCCTCTGGAACCCTGGTCTCCTAG

CTCACAGCAGCCCTGGCCACAGTGCAAGAGGACAAGATGGGGGATATCTGAGGCCAGTGCTCTCCTGCCTCTTC
GTCTTTCTGATTAGAGACCACGTTGGTCTGCTGAGAACCAGAAAAGCTGGGAAATTCCCGGCTGGCCCTCTGCC
TAGCCTTCTGCAGGGTCTTCTCCCTACCTGTGGAAATAAAGCCAGAGACCCTGTGGCCCCCTTTATATTGTC
AGCCACTGTCAGATGGGCATCACAGCAAGGCAGGCTTTTTGATCTGAAGCTGTTTGGGGTGACCCCATAGTGAGT
CTGGCCTTGACTCACTTTTCTGGCTTGACTCACAGTAGCAGGGGATCTGCTGTTCTCCACCCTTTAAAAATGGA
GCCTTTCATCTTCCAAGACCAAAGAAGGAAGGAAGGTGGACGGTGAGAGGGTCTTAAATCCCCAGCCTGTGAGTC
TCAGCCTCTTCCAGGGAAGCCTCATTCTACTGCTTGGGGCTTGCTGAGGTTGAGATATGAGTTATTTCTGAGTA
AGTGAAGGCTGAAGGCAGTGCTGAGTCCTTTCTGCTAGCTGGGTGGTATCTTTTACTGTGTTTTTTTGTGTTT
GTTTTTTGTTTTTTGTTACATAAACCCCTTTTATTTTGGAAAAA

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FIGURE 4907

MTTAASEVPSFLVERMANVRRRRQDRRGMEGGILKSRIVTWEPSEEFVRNNHVINTPLQTMHIMADLGPKKLG
KKYEHVLC TLKVDSNGVITVKPDTGLKGPYRIETEGEKQELWKYTIDNVSPHAQPEEEERERRVFKDLYGRHKE
YLSSLVGTDFEMTVPGALRLFVNGEVVS AQGYEYDNLYVHFFVELPTAHWSSPAFQQLSGVTQTCTTKSLAMDKV
AHFSYPFTFEAFFLHEDESSDALPEWPVLYCEVLSLDFWQRYRVEGYGAVVLPATPGSHTLTIVSTWRPVELGTVA
ELRRFFIGGSLELEDLSYVRIPGSFKGERLSRFGRLTETTGTVTFRHLHCLQQSRAFMESSLQKMRSVLDRLEG
FSQQSSIHNVL EAFRRARRRMQEARESLPQDLVSPSGTLVS

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FIGURE 4908

GGCCTGTTCTCGAGTCCGCGCTTTTCGTCACCGCCATGTCGGGAGGTGGTGTGATTTCGTGGCCCCGCAGGGAACA
ACGATTGCCGCATCTACGTGGGTAACCTTACCTCCAGACATCCGAACCAAGGACATTGAGGACGTGTTCTACAAAT
ACGGCGCTATCCGCGACATCGACCTCAAGAATCGCCGCGGGGACCGCCCTTCGCCTTCGTTGAGTTCGAGGACC
CGCGAGACGCGGAAGACGCGGTGTATGGTCGCGACGGCTATGATTACGATGGGTACCGTCTGCGGGTGGAGTTTC
CTCGAAGCGGCCGTGGAACAGGCCGAGGCGGCGGGGGTGGAGGTGGCGGAGCTCCCCGAGGTCGCTATGGCC
CCCCATCCAGGCGGTCTGAAAACAGAGTGGTTGTCTCTGGACTGCCTCCAAGTGGAAGTTGGCAGGATTTAAAGG
ATCACATGCGTGAAGCAGGTGATGTATGTTATGCTGATGTTTACCGAGATGGCACTGGTGTGCTGGAGTTTGTAC
GGAAAGAAGATATGACCTATGCAGTTCGAAAACCTGGATAACACTAAGTTTAGATCTCATGAGGGAGAACTGCCT
ACATCCGGGTTAAAGTTGATGGGCCAGAACTCCAAGTTATGGAAGATCTCGATCTCGAAGCCGTAGTCGTAGCA
GAAGCCGTAGCAGAAGCAACAGCAGGAGTGCAGTTACTCCCCAAGGAGAAGCAGAGGATCACCACGCTATPCTC
CCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTGTAGAACCCATGTTGTATACAGT
TTTCCTTTTATTCAGTACAATCTTTTCATTTTTTAATTCAAACCTGTTTTGTTTCAAGATGGGCTAAAGTGTGAATT
GCATTCTTGTAATATCCCTTGCTCCTAACATCTACATTCCCTTCGTGTCTTTGATAAATTGTATTTAAGTGAT
GTCATAGACAGGATTGTTTAAATTTAGTTAACTCCATACTCTTCAGACTGTGATATTGTGTAAATGTCTATCTGC
CCTGGTTTGTGTGAAGTGGGATGTTGGGGGTGTTTGTGGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTTGC
TTTTCATGTGCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCACA
TTTCAATCATTTTAGGATTGTCAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACTCC
AAGTGCTATTGTACAGATGAAATGGCAGTATTGACCTTATACTAAAAGGCAGGGGTTAAAAATGATTATATAC
ATTTTCCTTAAACACTTGCAAACATTTTATTAGTTGTCTTTAGCTACAATTGCTTTGCTTTTAAACCTTGGC
AATTGTGGCAAATATATTGCCCATTTTGTAGCAACTATTTTGTCTCCCTTCCCCCATTTTGTTTTAAATAGG
GACTAATGTGGGAAGAACTGGCTAATTTGTACAGTGCTTAGTTACAAGTGTAAATGTGTGACCTGCTGTTGGTG
TACATGTGGGTACAGGGTGTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTCTCT
CTGTGTGACTGATAGAGCGTTGCTATTTTCAATTTTTTAAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGTAT
TGGTGTAGATAATCTAGTTGGGAATACTTTTAAAGTCTCACCTTCCCCCTTAAACTAATATTATAATTGGTTTCA
ATGTTTAAAGACTTTAATTTACAAATTAAATGCAATGGGAGCATTAGATTTAGTTTGTAGACTTAGGTGGGTA
GCAATGCCAGTAACTTAAATTACGTAACCTCTTGCAACCAAGAACTGTAATACGCTGTACAGTAACAAGTGT
TGGCATTATCAGTTGAAGTGTAAATACAAAATGCTTCTTCCAATTAGTCTCTATGATGATTAAGTTTCTAAAATT
TATCTGAACACCATTAGAACTTGTTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTTAAACTGATGACAG
ACATAACTCATCATTTCCCAGAAACCTTTTTTGATTACAGTATCTAACATTTGCCTCCTCTTTTTTGGTTTTGC
TGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATCAT
AATGTGGATAGGATAGGGAGGATGAATTACCAGGATTATGGAGCGGGATCAGATTACCAGGAACATAGGAGTGG
ATTCTGCCCCAACCAACCGCATTCGTGTGGATTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTTTT
TTCTATTTTTGACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTGGTAAAAGGAGCAA
AGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGAAGGATTACGACGAGTAGATGGTAAACATTTAAA
GGGGAAAGGGGGGTTTGTTTAAATAGTAAATCAGTAAGTCACTTCTAAATTTAAAGAAAACAAATTTGGAGTT
GAAGAATAAGTAGGTTTCCAATTGGCTATTGCCGTTTTCTTTGAAAAATAAACATTTTTTAAAAAACAAAAAA
AAAAAAA

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FIGURE 4909

MSGGGVIRGPAGNNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGRD
GYDYDGYRLRVEFPRSGRGTGRGGGGGGGGGAPRGYGPSSRRSENRRVVVSGLPPSGSWQDLKDHMREAGDVCYA
DVYRDGTGVVEFVRKEDMTYAVRKLDNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSNSRSRS
YSPRRSRGSPRYSPRHSRSRSRT

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FIGURE 4910

ATGGGTAAGATCCGGAAGGCCCAAGGAGAAGGGCTGCCCCGCCCACTGCCCCCTGCTGGTCCAGCCCAACCTCCCC
TTTGGGTACCCAGTCCACGGAGTGGAGGTGATGCCCCTGCACACGGTTCCCATCCCAGGCCTCCAGTTTGAAGGA
CCCGATGCCCCCGTCTATGAGGTCAACCCTGACAGCTTCTCTGGGGACACTGAACACCCCTTGCTGATGTCCCAGAC
AGTGTGGTGCAGGGCAGAGGCCAGAAGCAGCTGATCATTTCTACCAGTGACCGGAAGCTGTTGAAGTTCATTCTT
CAGCACGTGACATACACCAGCACGGGGTACCAGCACCAGAAGTACTATCCCCACATTGCCATTGACCCCATAGAG
CCACTCGAGGAGAGAACAATCATGCTGTGCGCTTTGCACCTGTGAGTCTGGAGTCCAGGTCCTCAGTGGCCAAG
TTTCCAGTGACCATCCGCCATCCTGTCATACCCAAGCTATACGACCCCTGGACCAGTGTCTTTTTCAGTGTAGTCTT
AATCAGACTATTCAACTCCTCATCACCCCAGACACTGGTAGTATCTGGCACCAGGTGGGGTGGGAAGACAACCCGT
GAGTATTACACCTTCATGTGGGTACTTTGCCCCATTGACCTAAACAACAATCAGCTAAACAGCAGGAAGTCCAA
TTCAAAGCTTACTACCTGCCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGG
GGAGCAAGTATTCTTTCCAATTCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGAGAGGTG
GAAGAGATTGAGCAGCACACAAGGAGCTTTGCAAAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAG
AAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGTATCTTTGA

[illegible]

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FIGURE 4912

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYTFTQHFIPRRKDWIGIFRVGWKTTREYYTFMWV
TLPIDLNNKSAKQQEVQFKAYYLPKDDEYYQFCYVDEDGVVRGASIPFQFRPENEEDILVVTTQGEVEEIEQHNK
ELCKENQELKDSCISLQKQNSDMAELQKKQEELETLSINKKLELKVKEQKDYWETELLQLKEQNQKMSSENEK
MGIRVDQLQAQLSTQEKEMEKLVOGDQDKTEQLEQLKKENDHLFLSLTEQRKDQKKLEQTVEQMKQNETTAMKKQ
QELMDENFDLSKRLSENEIICNALQRQKERLEGENDLLKRENSRLLSYMGLDFNSLPYQVPTSDEGGARQNPGLA
YGNPYSGIQESSSPSPLSIKKCPICKADDICDHTLEQQQMQLCFNCPICDKIFPATEKQIFEDHVFCHSL

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FIGURE 4913

AAAAAATGCTTCTGTGCTCTAAGATATATATGTGTGTGTGTGTGCTACATATATATTTTTAAGAAAGGACCATC
TCTTTAGGATATATTTTTAAATTCTTTGAAACACATAACCAAAATGGTTTGATTCACTGACTGACTTTGAAGCTG
CATCTGCCAGTTACACCCAAATGGCTTTAATCCCTCTCGGGTCTGGTTGCCTTTTGAGTTTGGGTTGTGGAC
TCAGCTCCTGTGAGGGGTCTGGTTAGGAGAGAGCCATTTTTAAGGACAGGGAGTTTATAGCCCTTTTCTACTTT
CCTCCCTCCTCCAGTCCTTATCAATCTTTTTCTTTTTCTTGACCCCTCCTTCTGGAGGCAGTTGGGAGCT
ATCCTTGTTTATGCCTCACTATTGGCAGAAAAGACCCCATTTAAAACCCAGAGAACACTGGAGGGGGATGCTCTA
GTTGGTTCTGTGTCCATTTTCTCTGTGCCAAAGACAGACAGACAGAGGCTGAGAGAGGCTGTTCTGAATCAAA
GCAATAGCCAGCTTTTGACACATACCTGGCTGTCTGAGGAGGAAGGCCTCCTGGAACTGGGAGCTAAGGGCGAG
GCCCTTCCCTTCAGAGGCTCCTGGGGGATTAGGGTGTGGTGTGTTGCCAAGCCAAGGGGTAGGGAGCCGAGAAATT
GGTCTGTGCGCTCCTGGTTGCACTTTGGGGAAGGAGAGGAAGTTGGGGCTCCAGGTAGCTCCCTGTTGTGGGAC
TGCTCTGTCCCTGCCCCCTACTGCAGAGATAGCACTGCCGAGTTCCCTTCAGGCCTGGCAGACGGGCAGTGAGGA
GGGGCCTCAGTTAGCTCTCAAGGGTGCCTTCCCTCCTCCCAACCCAGACATACCTCTGCCAACTGGGAACCA
GCAGTGCTAGTAACCTCACAGAGCCCCAGAGGGCCTGCTTGAGCCTTCTTGCTCCACAGGAGAAGCTGGTGC
CTCTAGGCAACCCCTTCTCCACCTCTCATAGGGGTGGGGTTCTCCTTTCTTTCCCTGAAGTGTATGGG
GAGATCCTAGTGGCTTTGCCATTCAAACCACTCGACTGTTTGCTGTTTCTTGAAAACCAAGTAGAAGGGAAACAG
CACAGCCTGTACAGTAATTGCAGGAAGATTGAAGAAAAATCCTCATCAATGCCAGGGGACATAAAAGCCATTTT
CCTTCCAAATACTCGACAATTAGATGCAGAACATTTCTCTGTATTCACTTAGAGTAACACCAGCTGAAAAC
GCAGTTTCTTCTTTGGATACATAAGGCTTCTCTATCGGGGTACGGGACAGGGAGGAGGCCTCATGTCTGAAGG
GGGATTTAGGGGCGAGAGCCCCAGCCCTGACCCTCGGTCTGTGCACCGCTTTGGGGCACAGTCTGATGGCGCCT
TTGCTGGCGCCTTAGTATGGTTGACTCCGGATGGACAAAAGAAAAAAATTTTTTTCTTGAATGAAATAGCAGG
AAGCTCCTCGGGAGCATGTGTTTGATTAAACCGCAGGTGATGGATGCTACGAGTATAAATGGATTAACTACCTCA
ATCCTTACAGTAAGATTGGAATAAGGGCAGGGACTCATGCATAAGGGTATGAATCCCAGCCAGGACAAGTGAGT
TGAGGCTTGTGCCACAAAAGGTTTGTCTTGGGGAACAGGCAGGCCTGCCAGGATCCCCCATATCGATTGGGC
TGGGAGGGCTGGCCATGAGGTCCCCACTTTCTGCTTTCCTTGCCCATGTGTACCCCTTTGGCCTCCAGCTTGT
CCTCTCTCACTTTCTATAGCTTTGTTGGACCAGATGGTGAGGAAAGGAATGGCCTCTTCCCTTCTAGAGGGGGCT
GGCTGGAGTGAGACCTGGGGCTTGGCCTGGAACCCACCACACAGCCCCAAAGTCAGGAAGCCTGGGGAAACCAGA
GCTGAGACCTCTCAACAGGGTTTCTTTGAGATCCTACACCTCCATTGGGCCCTTTTTCAGTCTTCAATGGGGC
CCAGTTGGCTCTAGAAGGAGAAGAGGTGAAGCAGGATCCTTTGCCCTGGGGGAGTCTGAGGGCGCGGTCTTGA
CTCATTAGGCCGTCTTTGTAGTTGGGGGAGTCCACTGGGCGATCCAGCCCTCCCCACCCACCTCTAATGG
ACCTCCTCATAGAAGCCCCATTTCACTTTTGTATCTACCTCTTAGCAAAACAATAGATAAATTAGGTAGTGG
CAGCTCCACTTGCTTAGGTTAGGGGGGAAAAAGATTTCTTTTCCAAAGGAAAAAATATTACCTTGAGAATAC
TTTCCAAAAATAAAATTAATAAAAAAAAAA

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FIGURE 4914

MALIPSRVWLPFAVWVDSAPVRGLVRREPFLRTGSFIALFYFPPLLPVLINLFSFFLTSPFWRQLGAILVYASL
LAEKTPFKTQRTLEGDALVGSVSIFLCAKDRQTEAERGCS

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FIGURE 4915

GGGACGTGGAGACCCGGGGTCCCGGCAGCCGGGCGGCCCGGGGCCAGGGTGGGGATGCACCGCCGCGGGGTGG
GAGCTGGCGCCATCGCCAAGAAGAACTTGCAGAGGCCAAGTATAAGGAGCGAGGGACGGTCTTGGCTGAGGACC
AGCTAGCCCAGATGTCAAAGCAGTTGGACATGTTCAAGACCAACCTGGAGGAATTTGCCAGCAAACACAAGCAGG
AGATCCGGAAGAATCCTGAGTTCCGTGTGCAGTTCCAGGACATGTGTGCAACCATTGGCGTGGATCCGCTGGCCT
CTGGAAAAGGATTTTGGTCTGAGATGCTGGGCGTGGGGGACTTCTATTACGAACTAGGTGTCCAAATTATCGAAG
TGTCCTGGCGCTGAAGCATCGGAATGGAGGTCTGATAACTTTGGAGGAACTACATCAACAGGTGTTGAAGGGAA
GGGGCAAGTTCGCCCAGGATGTCAGTCAAGATGACCTGATCAGAGCCATCAAGAACTAAAGGCACTTGGCACTG
GCTTCGGCATCATCCCTGTGGGCGGCACCTTACCTCATTGAGTCTGTTCCAGCTGAGCTCAATATGGATCACACCG
TGGTGCTGCAGCTGGCAGAGAAGAATGGCTACGTGACTGTGAGTGTGAGATCAAAGCCAGTCTTAAATGGGAGACCG
AGCGAGCGCGCAAGTGTGGAACACCTGCTGAAGGAAGGGTTGGCGTGGCTGGACTTACAGGCCCCAGGGGAGG
CCCACTACTGGCTGCCAGCTCTCTTCACTGACCTCTACTCCCAGGAGATTACAGCTGAGGAGGCCAGAGAAGCCC
TCCCCTGACTGCATGTGGAAGGGCACACAGCAGCAGGCAGGGAGGAGGCGGAGGTGGCAAATAAACCTGGGCAAT
TTTGTTTATACAAAAAATAGAAAAAA

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FIGURE 4916A

AGCAGACGGGAGTTTCTCCTCGGGGTCGGAGCAGGAGGCACGCGGAGTGTGAGGCCACGCATGAGCGGACGCTAA
CCCCCTCCCCAGCCACAAAGAGTCTACATGTCTAGGGTCTAGACATGTTTCAGCTTTGTGGACCTCCGGCTCCTGC
TCCTCTTAGCGGCCACCGCCCTCCTGACGCACGGCCAAGAGGAAGGCCAAGTCGAGGGCCAAGACGAAGACATCC
CACCAATCACCTGCGTACAGAACGGCCTCAGGTACCATGACCAGACGTGTGGAAACCCGAGCCCTGCCGGATCT
GCGTCTGCGACAACGGCAAGGTGTTGTGCGATGACGTGATCTGTGACGAGACCAAGAACTGCCCCGGCGCCGAAG
TCCCCGAGGGCGAGTGTCTGCCGTCTGCCCCGACGGCTCAGAGTCACCCACCGACCAAGAAACACCGGCGTGC
AGGGACCCAAGGGAGACACTGGCCCCGAGGCCAAGGGGACCCGACGGCCCCCTGGCCCGAGATGGCATCCCTG
GACAGCCTGGACTTCCCGGACCCCCGGACCCCCGGACCTCCCGGACCCCTGGCCTCGGAGGAAACTTTGCTC
CCCAGCTGTCTTATGGCTATGATGAGAAATCAACCGGAGGAATTTCCGTGCCTGGCCCATGGGTCCCTCTGGTC
CTCGTGGTCTCCCTGGCCCCCTGGTGACCTGGTCCCCAAGGCTTCCAAGGTCCCTGGTGAGCCTGGCGAGC
CTGGAGCTTCAGGTCCCATGGGTCCCCGAGGTCCCCAGGTCCCCCTGGAAAGAATGGAGATGATGGGGAAGCTG
GAAACCTGGTGTCTGGTGAGCGTGGGCTCTCCGGCCTCAGGGTGTCTGAGGATGCCCCGAACAGCTGGCC
TCCCTGGAAATGAAGGACACAGAGTTTCAGTGGTTTGGATGGTGCCAAGGGAGATGCTGGTCTGTGCTGCTA
AGGGTGAGCCTGGCAGCCCTGGTGAAAATGGAGTCTCTGGTGCAGATGGGCCCCCTGGCCTGCCTGGTGAGAGAG
GTCGCCCTGGAGCCCCCTGGCCCTGCTGGTGCTCGTGAAATGATGGTGCTACTGGTGTGCGCGGCCCTGGTC
CCACCGGCCCGCTGGTCTCTCTGGCTTCCCTGGTGTCTGTTGGTGCTAAGGGTGAAGCTGGTCCCCAAGGGCCCC
GAGGCTCTGAAGGTCCCCAGGGTGTGCGTGGTGAGCCTGGCCCCCTGGCCCTGCTGGTGCTGCTGGCCCTGCTG
GAAACCTGGTGTGATGGACAGCTGGTGCTAAAGGTGCCAATGGTGCTCCTGGTATTGCTGGTGTCTCTGGCT
TCCCTGGTGCCCGAGGCCCCCTTGGACCCAGGGCCCCGGCGGCCCTCCTGGTCCCAGGGTAACAGCGGTGAAC
CTGGTGTCTCTGGCAGCAAAGGAGACACTGGTGCTAAGGGAGAGCCTGGCCCTGTTGGTGTTCAAGGACCCCTG
GCCCTGCTGGAGAGGAAGGAAAGCGAGGAGCTCGAGGTGAACCCGGACCCACTGGCCTGCCCGGACCCCTGGCG
AGCGTGGTGGACCTGGTAGCCGTGGTTTCCCTGGCGCAGATGGTGTGCTGGTCCCAGGGTCCCGCTGGTGAAC
GTGGTTCTCTGGCCCTGCTGGCCCCAAAGGATCTCCTGGTGAAGCTGGTGTGCTCCCGGTGAAGCTGGTCTGCTG
GTGCCAAGGGTCTGACTGGAAGCCCTGGCAGCCCTGGTCTGATGGCAAACTGGCCCCCTGGTCCCGCCGGTC
AAGATGGTGCSCCGGACCCCGAGGCCACCTGGTGCCCGTGGTCAAGGTGGTGTGATGGGATTCCCTGGACCTA
AAGGTGTGCTGGAGAGCCCGGCAAGGCTGGAGAGCGAGGTGTTCCCGGACCCCTGGCGCTGTGCTCTGCTG
GCAAGATGGAGAGGCTGGAGCTCAGGGACCCCTGGCCCTGCTGGTCCCGCTGGCGAGAGAGGTGAACAAGGCC
CTGCTGGCTCCCCCGATTCCAGGGTCTCCCTGGTCTGCTGGTCTCCAGGTGAAGCAGGCAAACTGGTGAAC
AGGGTGTTCTCGGAGACCTTGGCGCCCTGGCCCTCTGGAGCAAGAGGCGAGAGAGGTTTCCCTGGCGAGCGTG
GTGTGCAAGGTCCCCCTGGTCTGCTGGTCCCGAGGGGCCAACGGTGTCTCCGGCAACGATGGTGCTAAGGGTG
ATGCTGGTGGCCCTGGAGCTCCCGGTAGCCAGGGCGCCCTGGCCTTCAGGGAATGCCCTGGTGAACGTGGTGCA
CTGGTCTTCCAGGGCCTAAGGGTGACAGAGGTGATGCTGGTCCCCAAGGTGCTGATGGCTCTCTGGCAAAGATG
GCGTCCGTGGTCTGACTGGCCCCATTGGTCTCTCTGGCCCTGCTGGTGGCCCTGGTGACAAGGGTGAAAGTGGTC
CCAGCGGCCCTGCTGGTCCCACTGGAGCTCGTGGTGCCCCCGAGACCGTGGTGAGCCTGGTCCCCCGGCCCTG
CTGGCTTTGCTGGCCCCCTGGTGTGACGGCCAACCTGGTGCTAAAGGCGAACCTGGTGATGCTGGTGTCTAAAG
GCGATGCTGGTCCCCCTGGCCCTGCCGGACCCGCTGGACCCCTGGCCCCATTGGTAATGTTGGTGCTCTCTGGAG
CCAAAGGTGCTCGCGGCAGCGCTGGTCCCCCTGGTGCTACTGGTTTCCCTGGTGCTGCTGGCCGAGTCGCTCCTC
CTGGCCCTCTGGAAATGCTGGACCCCTGGCCCTCCTGGTCTGCTGGCAAAGAAGGCGCAAAGGTCCCGTG
GTGAGACTGGCCCTGCTGGACGTCTGGTGAAGTTGGTCCCCCTGGTCCCCCTGGCCCTGCTGGCGAGAAAGGAT
CCCCTGGTGCTGATGGTCTGCTGGTGCTCTGGTACTCCCGGCCCTCAAGGTATTGCTGGACAGCGTGGTGCTG
TCGGCCTGCCTGGTCAGAGAGGAGAGAGAGGCTTCCCTGGTCTTCTGGCCCCCTCTGGTGAACCTGGCAAACAAG
GTCCCTCTGGAGCAAGTGGTGAACGTGGTCCCCCTGGTCCCATGGGCCCCCTGGATTGGCTGGACCCCTGGTG
AATCTGGACGTGAGGGGGCTCCTGGTGCCGAAGGTTCCCTGGACGAGACGGTTCTCTGGCGCCAAGGGTGACC
GTGGTGAGACCGGCCCCGCTGGACCCCTGGTGCTCTGGTGCTCTGGTGCCCTGGCCCCGTGGCCCTGCTG
GCAAGAGTGGTGATCGTGGTGAGACTGGTCTGCTGGTCCCACCGTCTGTGCGCCCTGTTGGCGCCCTGGCC
CCGCCGACCCCAAGGCCCCCGTGGTGACAAGGGTGAGACAGGCGAACAGGGCGACAGAGGCATAAAGGGTACC
GTGGCTTCTCTGGCCCTCAGGGTCCCCCTGGCCCTCCTGGCTCTCTGGTGAACAAGGTCCCTCTGGAGCCTCTG
GTCTGCTGGTCCCCGAGGTCCCCCTGGCTCTGCTGGTGCTCTGGCAAAGATGGACTCAACGGTCTCCTGGCC

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FIGURE 4916B

CCATTGGGCCCCCTGGTCCTCGCGGTGCGCACTGGTGATGCTGGTCCTGTTGGTCCCCCGGCCCTCCTGGACCTC
CTGGTCCCCCTGGTCCTCCCAGCGCTGGTTTCGACTTCAGCTTCCTGCCCCAGCCACCTCAAGAGAAGGCTCACG
ATGGTGGCCGCTACTACCGGGCTGATGATGCCAATGTGGTTCGTGACCGTGACCTCGAGGTGGACACCACCTCA
AGAGCCTGAGCCAGCAGATCGAGAACATCCGGAGCCCAGAGGGCAGCCGCAAGAACCCCGCCCGCACCTGCCGTG
ACCTCAAGATGTGCCACTCTGACTGGAAGAGTGGAGAGTACTGGATTGACCCCAACCAAGGCTGCAACCTGGATG
CCATCAAAGTCTTCTGCAACATGGAGACTGGTGAGACCTGCGTGTACCCCACTCAGCCAGTGTGGCCGAGAAGA
ACTGGTACATCAGCAAGAACCCCAAGGACAAGAGGCATGTCTGGTTCGGCGAGAGCATGACCGATGGATTCCAGT
TCGAGTATGGCGGCCAGGGCTCCGACCCCTGCCGATGTGGCCATCCAGCTGACCTTCCTGCGCCTGATGTCCACCG
AGGCCTCCCAGAACATCACCTACCCTGCAAGAAGAGCGTGGCCTACATGGACCAGCAGACTGGCAACCTCAAGA
AGGCCCTGCTCCTCCAGGGCTCCAACGAGATCGAGATCCGCGCCGAGGGCAACAGCCGCTTCACCTACAGCGTCA
CTGTGATGGCTGCACGAGTCAACCGGAGCCTGGGGCAAGACAGTGAATACAAAACCACCAAGACCTCCC
GCCTGCCCCATCGATGTGGCCCCCTTGGACGTTGGTGGCCAGAGCAAGGAATTGCGCTTCGAGCTTGGCCCTG
TCTGCTTCTGTAACTCCCTCCATCCCAACCTGGCTCCCTCCCACCCAACCAACTTCCCCCAACCCGGAAC
AGACAAGCAACCCAACTGAACCCCTCAAAAGCAAAAAATGGGAGACAATTTACATGGACTTTGGAAATAT
TTTTTTCCTTTGCATTCTCTCAAACTTAGTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTG
CATTCAACCTTACCAAAAAAAGAAAAAAGATAAATAAATAACTTTTTAAAAAAGGAAGCTTGGTCCACT
TGCTTGAAGACCCATGCGGGGTAAGTCCCTTTCTGCCCGTTGGGCTTATGAAACCCCAATGCTGCCCTTTCTGC
TCCTTTCTCCACACCCCCCTTGGGGCCTCCCTCCACTCCTTCCCAAATCTGTCTCCCAGAAGACACAGGAAAC
AATGTATTGTCTGCCAGCAATCAAAGCAATGTCAAACACCCCAAGTGGCCCCCACCCTCAGCCCGCTCCTGCC
CGCCCAGCACCCCCAGGCCCTGGGGGACCTGGGGTTCTCAGACTGCCAAAGAAGCCTTGCCATCTGGCGCTCCCA
TGGCTCTTGCAACATCTCCCCCTTCGTTTTTGGAGGGGTGATGCCGGGGGAGCCACCAGCCCCCTCACTGGGTTCCG
AGGAGAGTCAGGAAGGGCCACGACAAAGCAGAAACATCGGATTTGGGGAACGCGTGTCAATCCCTTGTGCCGAG
GGCTGGGCGGGAGAGACTGTTCTGTTCTTGTGTAAGTGTGTTGCTGAAAGACTACCTCGTTCTTGTCTTGATGT
GTCACCGGGGCAACTGCCTGGGGGCGGGGATGGGGGAGGGTGGAAAGCGGCTCCCCATTTTATACCAAAGGTGCT
ACATCTATGTGATGGGTGGGGTGGGGAGGGAATCACTGGTGCTATAGAAATTGAGATGCCCCCAGGCCAGCAA
ATGTTCCCTTTTGTTCAAAGTCTATTTTTATTCTTGATATTTTTCTTTTTTTTTTTTTTTTTTGTGGATGGG
ACTTGTGAATTTTTCTAAAGGTGCTATTTAACATGGGAGGAGAGCGTGTGCGGCTCCAGCCCAGCCCGTGTCTA
CTTTCCACCTCTCTCCACCTGCCTCTGGCTTCTCAGGCCTCTGCTCTCCGACCTCTCTCTCTGAAACCCCTCT
CCACAGCTGCAGCCCATCCTCCCGGCTCCCTCCTAGTCTGTCTGCGTCTCTGTCCCCGGGTTTCAGAGACAAC
TTCCCAAAGCACAAAGCAGTTTTTCCCCCTAGGGGTGGGAGGAAGCAAAAGACTCTGTACCTATTTTGTATGTGT
ATAATAATTTGAGATGTTTTTAATTATTTTGATTGCTGGAATAAAGCATGTGGAATGACCCAAACATAA

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FIGURE 4917

CCTGTTGCTGATGCTGCCGTGCGGTACTTGTCAATGGAGCTGGCACTGCGGCGCTCTCCCGTCCCGCGGTGGTTGC
TGCTGCTGCCGCTGCTGCTGGGCCTGAACGCAGGAGCTGTCATTGACTGGCCACAGAGGAGGGCAAGGAAGTAT
GGGATTATGTGACGGTCCGCAAGGATGCCTACATGTTCTGGTGGCTCTATTATGCCACCAACTCCTGCAAGAACT
TCTCAGAAGTGGCCCTGGTCATGTGGCTTCAGGGCGGTCCAGGCGGTTCTAGCACTGGATTTGGAACTTTGAGG
AAATTGGGCCCCCTTGACAGTGATCTCAAACCACGAAAACCACTGGCTCCAGGCTGCCAGTCTCCTATTGTGG
ATAATCCCGTGGGCACTGGGTTCACTTATGTGAATGGTAGTGGTGCCTATGCCAAGGACCTGGCTATGGTGGCTT
CAGACATGATGGTTCTCCTGAAGACCTTCTTCAGTTGCCACAAAGAATTCCAGACAGTTCATTCTACATTTCT
CAGAGTCCTATGGAGGAAAAATGGCAGCTGGCATTGGTCTAGAGCTTTATAAGGCCATTACAGCGAGGGACCATCA
AGTGCAACTTTGCGGGGGTTGCCTTGGGTGATTCTGGATCTCCCCCGTGGATTCCGTGCTCTCCTGGGGACCTT
ACCTGTACAGCATGTCTCTTCTCGAAGACAAAGGTCTGGCAGAGGTGTCTAAGGTTGCAGAGCAAGTACTGAATG
CCGTAAATAAGGGGCTCTACAGAGAGGCCACAGAGCTGTGGGGGAAAGCAGAAATGATCATTGAACAGAACACAG
ATGGGGTGAACCTCTATAACATCTTAAGTAAAGCACTCCACGCTCTACAATGGAGTCGAGTCTAGAATTCACAC
AGAGCCACCTAGTTTGTCTTTGTTCAGCGCCACGTGAGACACCTACAACGAGATGCCTTAAGCCAGCTCATGAATG
GCCCCATCAGAAAGAAGCTCAAAATTATTCTGAGGATCAATCCTGGGGAGGCCAGGCTACCAACGCTCTTTGTGA
ACATGGAGGAGGACTTCATGAAGCCAGTCATTAGCATTGTGGACGAGTTGCTGGAGGCAGGGATCAACGTGACGG
TGTATAATGGACAGCTGGATCTCATCGTAGATACCATGGGTGAGGAGGCTGGGTGCGGAAACTGAAGTGCCAG
AACTGCCTAAATTCAGTCAGCTGAAGTGGAAGGCCCTGTACAGTGACCCTAAATCTTTGGAAACATCTGCTTTTG
TCAAGTCTTACAAGAACCTTGCTTTCTACTGGATTCTGAAAGCTGGTCATATGGTTCTTCTGACCAAGGGGACA
TGGCTCTGAAGATGATGAGACTGGTGACTCAGCAAGAATAGGATGGATGGGGCTGGAGATGAGCTGGTTTGGCCT
TGGGGCACAGAGCTGAGCTGAGGCCGCTGAAGCTGTAGGAAGCGCCATTCTTCCCTGTATCTAACTGGGGCTGTG
ATCAAGAAGGTTCTGACCAGCTTCTGCAGAGGATAAAATCATTGTCTCTGGAGGCAATTTGGAAATTATTTCTGC
TTCTTAAAAAACCTAAGATTTTTTAAAAAATTGATTTGTTTTGATCAAAATAAAGGATGATAATAGATATTATT
TTTTCTTATGACAGAAGCAAATGATGTGATTTATAGAAAACTGGGAAATACAGGTACCCAAAGAGTAAATCAAC
ATCTGTATACCCCTTCCAGGGGTAAGCACTGTTACCAATTTAGCATATGTCCTTGCAAGATTTTTTTTTCTAT
ATATACATATATATTTTTTACCAAAATGAATCATTACTCTATGTTGTTTACTATTTGTTTGACATATCAGTATA
TCTGAAACACCTTTTCATGTCAATAAATGTTCTTCTCTAACATTAA

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FIGURE 4918

MELALRRSPVPRWLLLLPLLLGLNAGAVIDWPTEEGKEVWDYVTVRKDAYMFWWLYYATNSCKNFSELPLVMWLQ
GGPGGSSTGFGNFEEIGPLDSLKPRKTTWLQAASLLFVDNPVGTGFSYVNGSGAYAKDLAMVASDMMVLLKTFF
SCHKEFQTVPFYIFSESYGGKMAAGIGLELYKAIQRGTIKCNFAGVALGDSWISPVDSVLSWGPYLYSMSLLEDK
GLAEVSKVAEQVLNAVNGLYREATELWGKAEMIEQNTDGVNFYNILTKSTPTSTMESSLEFTQSHLVCLCQRH
VRHLQRDALSQLMNGPIRKKLKIIPEDQSWGGOATNVFVNMEEDFMKPVISIVDELLEAGINVTVYNGQLDLIVD
TMGQEAWVRKLKWPPEPKFSQKWKALYSDPKSLETSAFVKSYNLAFYWILKAGHMVPSDQGDMAKMMRLVTQ
QE

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FIGURE 4919

CCGGACTGCGGAAGGATGGAGCTGGCCGCCGGAAGCTTCTCGGAGGAGCAGTTCTGGGAGGCCTGCGCCGAGCTC
CAGCAGCCCGCTCTGGCCGGGCGGACTGGCAGCTCCTAGTGGAGACCTCGGGCATCAGCATCTACCGGCTGCTG
GACAAGAAGACTGGACTTCATGAGTATAAAGTCTTTGGTGTTCTGGAGGACTGCTCACCAACTCTACTGGCAGAC
ATCTATATGGACTCAGATTACAGAAAACAATGGGACCAGTATGTTAAAGAACTCTATGAACAAGAATGCAACGGA
GAGACTGTGGTCTACTGGGAAGTGAAGTACCCTTTTCCCATGTCCAACAGAGACTATGTCTACCTTCGGCAGCGG
CGAGACCTGGACATGGAAGGGAGGAAGATCCATGTGATCCTGGCCCGGAGCACCTCCATGCCTCAGCTTGGCGAG
AGGTCTGGGGTGATCCGGGTGAAGCAATACAAGCAGAGCCTGGCGATTGAGAGTGACGGCAAGAAGGGGAGCAAA
GTTTTCATGTATTACTTCGATAACCCGGGTGGCCAAATTCGGTCTTGCTCATTAACTGGGCGGCCAAGAATGGA
GTTCTTAACCTCTTGAAAGACATGGCAAGAGCCTGTCAGAACTACCTCAAGAAAACCTTAAGAAAGAGAAGTGGGA
ACATTGCATCCATGGGTTGATGTCTCTGGAAGTGCAACCAACCAATGTCTCTGGAAGTGCCACCTGGGAAGTGCCA
CCTGGAAGTGTCTCTGGAAGAGCACCCACCAGTGTTCAGCCTTCCCCTGCTGTTTTCTGTCTTCAGAGGCCTACAC
ACTACCACATCCTTTCTAAGCATGTTTGCCTGACATCCAGCTCACTCGTCTGCTTCCTTTCTCGCTCCCCCATC
CTGGGCTGGGCTGCCTTCTTCTACAGTTCAATATGGGGCAGACTAGGGAAACCTTTGCTTGCTTACTATTAGGAG
GGGAAGTCTTCAGTAGGGAACACGATCATTCCATTGTGCAATTTTACGGGGATGGGTGGGCGGAGGGACACAACA
AAATTTAAGAATGACTATTTGGGCGGGCTGGCTCTTTTGAGCCTTGTAATTTCTTCCAGCTTGGGAGGGGCTGCT
GGAAGTGGCATTTCGTTTCAGAGCTGACTTTTCAGTGCACCCAACTGGATGACGTGCCAATGTCCATTTGCCTTAT
GCTTTGTGGAGCTGATTAGGCTGGGATTTGAGGTGATAATCCAGTAAGTCTTTTCTCGTTTCTTACTTGTGGAGGA
TCAGTAGCTGTTATGATGCCAGACATTTGGAGAAGTATCAGAGGCCTGACCGGACACATAATACGACAACCACA
TTTTTCTCATCATCCATGAGGAAATGGATGATTTCTCTTTTCCATATGTCACTGGGGGAAAGGCTGCCTGTACC
TCTCAAGCTTTGCATTTTACTGGAACTGAGGCGTCAAGATGGCTGTGGCAGCTAGCAAAAGCAAAGATGCTTTG
TGCATAGCCTTGTGAAAAAGTATCTTTCTATGCAATAAGATGAATTTTCTCCCAGAATATTTAGAAATGTAGAA
GGGATAACAGTTCACAGCCAGGTAAAATTTAAGTGGTGGCTTAATGACTCTGCACCTTTTTTCTCAGGAATTCTGC
CTAAGTTGTCTGCCTTTTCTACCACCAAAAAGACTTTTAGTTTTCTATGCTTTTCTCCTGAATTTTGGTAGGGTAA
GTATTTCTATGTCAAAGGCACAGCCTTGATGATCTCAGGGAAAAATTTAATCAGTGTGTATAATGATACTGAAC
CTTGATTAATAACAGAAATTCAGGATGTAAAGCCACAGAATGGGATTTATTAATGTGGGATACCTCAGACTGTTT,
GTTTTCTTTCTGGGAAGAAAAGTGTGTTCTATAATGAATAAATATAGAGTGGTTTTT

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FIGURE 4920

MELAAGSFSEEQWEACAELOQPALAGADWQLLVETSGISIIYRLDKKTGLHEYKVFGVLEDCSPTLLADIYMDS
DYRKQWDQYVKELYEQECNGETVVYWEVKYFPFMSNRDYVYLRQRDLDMEGRKIHVILARSTSMPLGERSGVI
RVKQYKQSLAIESDGKKGSKVFMYYFDNPGGQIPSWLINWAAKNGVPNFKDMARACQNYLKKT

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FIGURE 4921A

CCGCCCCCGACCCGAGCTCTTTCGTCTGCCTGCCAGTTTCCTGCGTCCCCGGAGAGGATCCTGCTGAGCCCAGCC
TCCCCCTCCCCCTTCTCCTCCTCCTCCTTGGAGAGCCCCGGGCAGCCACTGCCCCGAGCCCCAGTGACAGGAGGA
GACCATAACCCCCGACAGCGCCATGGCCCAGATTCTGCCAATTCGTTTTTCAGGAGCATCTCCAGCTCCAGAACCT
GGGTATCAACCCAGCAAACATTGGCTTCAGTACCCTGACTATGGAGTCTGACAAATTCATCTGCATTAGAGAAAA
AGTAGGAGAGCAGGCCAGGTGGTAATCATTGATATGAATGACCAAGTAATCCAATTCGAAGACCAATTTTCAGC
AGACAGCGCCATCATGAATCCAGCTAGCAAAGTAATTGCACTGAAAGCTGGGAAAACCTCTTCAGATTTTAAACAT
TGAAATGAAAAGTAAAATGAAGGCTCATACCATGACTGATGATGTCACCTTTTGGAAATGGATCTCTTTGAATAC
GGTTGCTCTTGTTACGGATAATGCAGTTTATCAGTGGAGTATGGAAGGAGAGTCTCAGCCAGTGAAAATGTTTGA
TCGCCATTCTAGCCTTGCAGGGTGCCAGATTATCAATTACCGTACAGATGCAAAACAAAAGTGGTTACTTCTGAC
TGGTATATCTGCACAGCAAAATCGTGTGGTGGGAGCTATGCAGCTATATTCTGTAGATAGGAAAGTGTCTCAGCC
CATTGAAGGACATGCAGCTAGCTTTGCACAGTTTAAAGTGAAGGAAAATGCAGAAGAATCAACGTTATTTTGT
TGCAGTTCGGGGCCAAGCTGGAGGGAAGTTACATATTATTGAAGTTGGCACACCACCTACAGGGAACCGCCCTT
TCCAAAGAAGGCAGTGATGTCTTTCTTCCCTCCAGAAGCACAAAATGATTTTCTGTTGCAATGCAGATCAGTGA
AAAGCATGATGTGGTGTCTTGTATAACCAAGTATGGTTATATCCACCTCTATGATCTTGAGACTGGTACCTGCAT
CTACATGAATAGAATCAGTGGAGAAACAATTTTGTACTGCACCTCATGAAGCCACAGCTGGAATAATTGGAGT
AAACAGAAAGGGACAAGTTCTGTCAAGTGTGTGGAAGAAGAAAACATAATTCTTACATCACCATGTTCTACA
AAATCCTGATTTGGCTCTGAGAATGGCTGTACGTAATAACTTAGCCGGTGTGAAGAACTCTTTGCCGGAAAT
TAATGCTCTTTTGGCCAGGGAATTAATCGGAGGCAGCAAAGGTGGCTGCTAATGCACCAAAGGGAATTTCTCG
TACTCCAGACACTATCCGTCGGTTCCAGAGTGTCCAGCCCAGCCAGGTCAAACCTCTCTCTACTTCAGTACTT
TGGTATCCTTTTGGACCAGGGACAGCTCAACAAATACGAATCCTTAGAGCTTTGTAGGCCTGTACTTCAGCAAGG
GCGAAAACAGCTTTTGGAGAAATGGTTAAAAGAAGATAAGCTGGAATGTTCTGAAGAACTGGGTGATCTTGTA
ATCTGTGGACCTACATTGGCACTTAGTGTGTACCTAAGGGCTAACGTCCCAAATAAAGTCATTTCAGTGCTTTGC
AGAAACAGGTCAAGTCCAAAAGATTGTTTTATATGCTAAAAAAGTTGGATACACTCCAGATTGGATATTTCTGCT
GAGAAATGTAATGCGAATCAGTCCAGATCAGGGACAGCAGTTTGGCCAAATGTTAGTTCAAGATGAAGAGCCTCT
TGCTGACATCACACAGATTGTAGATGTCTTTATGGAATACAATCTAATTCAGCAGTGTACTGCATTCTTGCTTGA
TGCTCTGAAGAATAATCGCCCATCTGAAGTCTTTACAGACGCGGTACTTGAGATGAACCTTATGCATGCGCC
TCAAGTTGCAGATGCTATTCTAGGCAATCAGATGTTACACATTATGACCGGGCTCATATTGCTCAACTGTGTGA
AAAGGCTGGCCTACTGCAGCGTGCATTAGAACATTTCACTGATTTATATGATATAAAACGTGCAGTGGTTCACAC
CCATCTTCTTAACCCTGAGTGGTTAGTCAACTACTTTGGTTTCCTATCAGTAGAAGACTCCCTAGAATGTCTCAG
AGCCATGCTGTCTGCCAACATCCGTCAGAATCTGCAGATTTGTGTTCAGGTGGCTTCTAAATATCATGAACAACT
GTCAACTCAGTCTCTGATTGAACTTTTTGAATCTTTCAAGAGTTTGAAGGTCTCTTTATTTTCTGGGATCCAT
TGTTAACTTTAGCCAGGACCCAGATGTGCACTTTAAATATATTAGGCAGCTTGCAAGACTGGGCAAAATCAAAGA
AGTAGAAAGAATCTGTAGAGAAAGCAACTGCTACGATCCTGAGCGAGTCAAGAATTTCTTAAGGAAGCAAACT
AACAGATCAGCTACCACTTATCATTGTGTGTGATCGATTTGACTTTGTCCATGATTGGTGCTCTATTTATATAG
AAATAATCTTCAAAAGTATATAGAGATATATGTACAGAAGGTGAATCCAAGTCGACTCCTGTAGTTATTGGAGG
ATTACTTGATGTTGACTGTTCTGAAGATGTCATAAAAAACTTGATTCTTGTTGTAAGAGGTCAATTCTCTACTGA
TGAGCTTGTGCTGAGGTTGAAAAAAGAAACAGATTGAAACTGCTTCTGCCTTGGCTAGAGGCCAGAATTCATGA
GGGCTGTGAGGAGCCTGCTACTCACAATGCCTTAGCCAAAATCTACATAGACAGTAATAACAACCCGGAGAGATT
TCTTCGTGAAAATCCCTACTATGACAGTCGCGTGTGTGAAAGTATTGTGAGAAGAGAGATCCACATCTGCGCTG
TGTTGCTTATGAACGTGGCCAAATGTGATCTGGAACCTTATTAATGTTTGCAATGAGAATTCCTCTTCAAAGTCT
TTCTCGCTACCTGGTACGTCGAAAGGATCCAGAATTGTGGGGCAGCGTGCTGCTGGAAGCAATCCTTACAGGAG
ACCCCTAATTGACCAGTTGTACAAACAGCTTTGTCTGAGACTCAGGACCCTGAAGAAGTGTCTAGTAACTGTAAA
GGCTTTTCAGTGCAGACCTCCTAATGAACCTATTGAACGTGCTGGAGAAAATTGTCCTTGATAACTCTGTATT
CAGTGAACACAGGAATCTGCAAAACCTCCTTATCCTCACTGCAATTAAGGCTGACCGTACACGTGTTATGGAGTA
TATTAACCGCCTGGATAATTATGATGCCCCAGATATTGCCAATATCGCCATCAGCAATGAGCTGTTTGAAGAAGC
ATTTGCCATTTTCCGGAATTTGATGTCAATACTTCAGCAGTTCAGGTCTTAATTGAGCATATTGGAACCTTGGA
TCGGGCATATGAGTTTGCTGAACGTTGCAATGAACCTGCGGTCTGGAGTCAACTTGCAAAAGCCAGTTGCAGAA
AGGAATGGTGAAAGAAGCCATTGATTCTTATATCAAAGCAGATGATCCTTCTCTACATGGAAGTTGTTACGGC

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FIGURE 4921B

TGCCAATACTAGTGGAACTGGGAAGAACTGGTGAAGTACTTGCAGATGGCCCGTAAGAAGGCTCGAGAGTCCTA
TGTGGAGACAGAACTGATATTCGCACTGGCTAAAACAAACCGCCTTGCAGAGTTAGAAGAATTTATCAATGGACC
AAATAATGCTCATATCCAACAAGTTGGTGACCGTTGTTATGATGAAAAAATGTATGATGCTGCTAAGTTGTTGTA
CAATAATGTTTCCAATTTTGGACGTTTGGCATCTACCCTGGTTACCTGGGTGAATATCAGGCAGCTGTTGATGG
GGCTAGGAAAGCTAACAGTACTCGAACATGGAAAGAGGTCTGCTTCGCCTGTGTAGATGGGAAAGAATTCCGTCT
TGCTCAGATGTGTGGACTTCATATTGTTGTACATGCAGATGAATTAGAAGAACCTTCAACTACTATCAGGATCG
TGGCTATTTTGAAGAGCTGATCACCATGTTGGAAAGCAGCACTGGGACTTGAGCGAGCTCATATGGGAATGTTTAC
TGAATTAGCTATTCTATACTCTAAATTTAAGCCTCAGAAAAATGAGGGAGCACCTGGAGCTGTTCTGGTCTAGAGT
GAATATTTCCCAAGGTGCTAAGAGCTGCAGAACAAGCTCATCTTTGGGCAGAAGTGGTGTGTTTGTATGACAAGTA
TGAAGAATATGATAATGCCATAATTACCATGATGAATCATCCAAGTATGCCTGGAAAGAAGGGCAATTCAAAGA
TATCATTACCAAGGTGGCAATGTGGAACATACTACAGAGCAATACAGTTCTACTTAGAATTCAGCCTCTGTT
GTTAAATGATTTGCTGATGGTGTCTCTCCACGGTTGGATCACACTCGTGCAGTCAATTATTTTCAGCAAGGTTAA
ACAGCTACCCTGGTGAAACCGTATTTGCGTTTCAGTTTCAGAACCATAAACAACAAATCTGTGAATGAATCATTGAA
CAATCTTTTTTATACAGAAGAAGATTATCAGGCTCTGCGAACATCAATAGATGCTTATGACAACCTTTGACAATAT
CTCGCTTGCTCAGCGTTTGGAAAAACATGAACCTATTGAGTTTCAGGAGAATTGCTGCTTATCTCTTCAAAGGCAA
CAATCGCTGGAAACAGAGTGTAGAGCTGTGCAAGAAAGACAGCCTTTACAAGGATGCAATGCAGTATGCTTCTGA
ATCTAAAGATACTGAATTGGCTGAAGAAGTCTGCAAGTGGTTTTTTCAGGAAGAAAAAGAGAGTGTCTTGGAGC
TTGTCTGTTTACCTGTTACGATCTTTTAAGGCCAGATGTGCTCCTAGAAACTGCATGGAGGCACAATATCATGGA
TTTTGCCATGCCCTATTTTCATCCAGGTCTATGAAGGAGTACTTGACAAAGGTGGATAAATTAGATGCTTCAGAATC
ACTGAGAAAAGAAGAAGAACAAGCTACAGAGACACAACCCATTGTTTATGGTCAGCCCCAGTTGATGCTGACAGC
AGGACCCAGTGTGCGCTCCCTCCCCAGGCACCTTTGGTTATGGTTATACCGCACCACCGTATGGACAGCCACA
GCCTGGCTTTGGGTACAGCATGTGAGATGAAGCGCTGATCCTGTAGTCACCTATTTTCGTACTGAAACATCGTCT
TTACCCACTTCTCAGTTTATAATGGGGGAAAACAGGCAACGTGTTCTTGTAACCTTTATTTTCATGAAGGACTTCT
TTTTGTTTCTAACTATAAACTTGGATCACCTATGTTAAACCTTATTTTCACATTCCACATCATTTTAGAATTTAT
TTTCGAAGGGGAATAGTTTCAATGTTTTATTCACTTGGGCTTTTTTTCTTCCCCCTCTTTCTTTAAAGAACTGCT
CAATATTCAATCTGTTGTGAAGAACCTGATTGCACTCTGTAGTGTGTTAAAGAAACAAAGAACTCTAATATTGA
ATCTCTTAAATTTAGTGTATGTAAACAGCTTACAAATACGTATTGTCTAAATGCATTTAAATCTGTTTTATTCAA
AGAAAAGCTAAAGCAAAAACACTGGCATATGACCATGCAAGACTGTCAGTGCCAACAAAGACAACACTAATCAGC
ACATCGTACACTGGATTGCAGTGCTTCCCAGATTATTGAAAAATGTTACAGACAACCTGCCTGATTTTTTAAATGA
GCGTAAAAGGCCCTCTAACCTATGCAGGTTTCCCATTATGCATATAGAAAATGCTAGTATGTTTTGCTCACTTC
ATATGTAACAGGTGCCCTTATGTTGTGCTGTATCCTGTGCTTTTTCTGTGGGACCATTCCATTACAGGAGCAAAGA
GCACCATGATTCCAATCTTGTGTGTTTTACTAACCTTCCCTGAGGCTTGTGTATGTGGATATTGTGGTGTGTT
TAGATCACTGAGTGTACAGAAGAGAGAAATTCAAACAAAATATTGCTGTTCTTCAGTTTGTGTTGTGGAATTTGA
AATTACTCAATTTAAATAAATTACTGGACTGTGG

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FIGURE 4922

MAQILPIRFQEHLLQLNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISADSAIMNP
ASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGESQPVKMFDRHSSLAG
CQIINYRTDAKQKWLTLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQFKMEGNAEESTLFCFAVRGQAG
GKLHIIIEVGTPPTGNQPPFKAVDVFFPPEAQNDFPVAMQISEKHDVVFLITKYGYIHLYDLETGTCIYMNRI
ETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNVLQNPDLALRMAVRNNLAGAEELFARKFNALFAQG
NYSEAAKVAANAPKGILRTPDTIRRFQSVPAQPGQTSPLLQYFGILLDQGQLNKYESLELCRPVLQOGRKQLEK
WLKEDKLECSEELGDLVKSVDPTLALSIVLRANVPNKVIQCFAETGQVQKIVLYAKKVGYPDWIFLLRNVMRIS
PDQGGQFAQMLVQDEEPLADITQIVDVFMENLIQOCTAFLLDALKNNRPSEGPLQTRLLEMNLMHAPQVADAIL
GNQMFTHYDRAHIAQLCEKAGLLQRALEHFTDLYDIKRAVVHHLNPEWLVNYFGSLSVEDSLECLRAMLSANI
RQNLQICVQVASKYHEQLSTQSLIELFESFKSFEGLFYFLGSIVNFSQDPDVHFKYIQAACKTGQIKEVERICRE
SNCYDPERVKNFLKEAKLTDQLPLIIVCDRDFVHDLVLYLRNNLQKYIEIYVQKVNPSRLPVVIGGLLDVDCS
EDVIKNLILVVRGQFSTDELVAEVEKRNRLKLLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENPHY
DSRVVGKYCEKRDPHLACVAYERGQCDELELINVCNENSLFKSLSRYLVRKDPPELWGSVLLESNPYRRPLIDQVV
QTALSETQDPEEVSVTVKAFMTADLPNELIELLEKIVLDNSVFSEHRNLQNLILITAIKADTRVMYINRLDNY
DAPDIANIAISNELFEEAFAIFRKFDVNTSAVQVLIEHIGNLDRAVEFAERCNEPAVWSQLAKAQLQKGMVKEAI
DSYIKADDPSSYMEVVQAANTSGNWEELVKYLQMARKKARESYVETELIFALAKTNRLAELEEFINGPNNAHIQQ
VGDRCYDEKMYDAKLLYNNVSNFGRLASTLVHLGEYQAAVDGARKANSTRWKEVCFACVDGKEFRLAQMCGH
IVVHADELEELINYYQDRGYFEELITMLEAALGLERAHMGMTLAILYSKFKPKMREHLELFWSRVNIPKVL
AAEQAHLWAEVLFLYDKYEEYDNAIITMMNHPTDAWKEGQFKDIITKVANVELYYRAIQFYLEFKPLLLNDLLMV
LSPRLDHTRAVNYFSKVKQLPLVKPYLRSVQNHNNKSVNESLNNLFITEEDYQALRTSIDAYDNFDNISLAQRLE
KHELIEFRRIAAYLFKGNRWKQSVELCKKDSLYKDAMQYASESKDTELAEEELLQWFLQEEKRECFGACLFTCYD
LLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKVDKLDASESLRKEEQATETQPIVYGQPQLMLTAGPSVAVP
PQAPFGYGYTAPPYQGPQPGFGYSM

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FIGURE 4923

TTTCCAGCCCCGGCCCCGGACCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG
AATGTGCCCAACCTTCATGTCAAGAAGCCATGCAGTCTCTCAAGTGCCGAGGCTACGTGAAAGAACAACCTTTGCC
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCGGAG
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT
GCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTCAGCAACCGAATTCTAGTTTAGAGGCGGA
TTTGGTTGTGGACGTGGTCAGCCACCTCAGTAAACTGGAGAGGATTCTTTTGCATTGAATAAATTTACAGCCAA
AAAA

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FIGURE 4924

AACCGGCGCCAGCCATGGCCCTCTGGGGCGGGCGGAAGCTGGGGTCGCTCCCCACCGCAGAGCGCAGTCCCGACGC
CCTGGGTACCTTCTGTCAGCCCCCTCTCGTGGGCGGTCCACCTGCGCCCCCGCAGCCAGGCCGCGTGAAGGAAG
ACCTGCTGGAACCTGATGCTGCAGAACGCGCAGATGCACCAGCTGCTGCTGAGTCGCCTGGTGGCTGGAGCGC
TGCAGCCCCGGCCTGCCTCGCCCTGCCCTCAGGTCTACCTGGAGGTTCCACAGGAAGAGCCTGAGGAGGAGGAGG
AGGAGATGACGTGCGGGAGAAAGGGCCCTTTGGTGTTCACCACCACTACTTGCCCTATTTGATGCCCTCCCCGG
GTGCCCTGCTGCCCTGGCCAGCCCCCTTCTTCCCCACCCTGCTTGTGAGCCCTACTTGCAGGACGTGCCAGGA
TTCAGCACTGTCTGCCCTCAGGGAAAGGGAGGTGAGAGCTGTGCCCCACCCCCACCCCCAGTGCCACAGGGA
CTGTGGGTGCTGATGTACCCCGGCTTTCAGACTACTATGATGCCGAGAGCCTCCTATAGGACAGACCCCGGCC
TGGGAACCTGCACCAGCTTCTGCTCTGGATACAGCCCCGGAGCCGCTCCTGCACCTCTCTTGTGACTCCCCGG
TGCCCACTGGCTGGCAGTCTCTCTCACTCCCTCAACCTCAGCCAGGCCCTCTCTCTCTGGGAAATCAGTCCCTGC
CCCACGCCAATGAGTTCTTGACGGGCCGATCTGTGCTGTGTGTGTAAGAGCTCCCTAGAGCACCACCCAGGCC
TTGAAGCCACGTGAGCCCGCTCTGCCCCACTGCTTCTGCTGGAGCAGGGGGAGGCCTGGGAACAGAGCCCC
ACCCTCTCTCCCTCACCCTCTCTCTGGGATGATGAGGTCTCTTCCAGCCTAGTAATGGAGCAAGAGGGGAGGG
GGGATTCTCTCTGCTTTCCACAGCTTTGAAGCCCCCTTTGAGGTGGCTGGAGGGGGCCAGAGTGGTGGGGAGA
GACTTTGTGGGCAGCGCCCTGAGCAGAGTCAGTTCGCTGGGCCCCCACCCTCATCCAGGAAGCAGCTCTG
TTGGCAGAAAGGAGAGGTGAGAGCTTTGTCTGCTGTGGCCAGGAGTGGCCTGAGGTCTCCTGGGGCCAGGTGGG
AACAGTGTGCTCTGCCCCCTGGGCCAGGGTGTGTTTTCCCCACCCTCCCTCAGTAGCAATGAGTACTCGGGC
CAGATGGGGGCTGTTGCATGGGCTGGGAGGCCCTGTGAAGGAGAGGGTGGGGAGGGAGGCATCTAGGGAGAGG
GGTCCCCCATGGTGGCTCCCTCCCTGGCCATTGTTATCCAGGAGGAGACACTGTGGGCACAGGGCTAAGTCCA
GGTGTGTTGTATTGGGCTAGAAAAGCAATGTCCCAAGTCTCTGCTGCCTGTACAGTCTTTCAGCCAGGGCTGG
ACCTCAACCTGAGGAGTCACACTGAGTTCCAGTGACCACCGTGGTGGTGGCCATGCCACTCATGGTTGCTATGG
CCGGAAGGCTGGGGCAGCCTCCTCCAAGCGCTCGCACCCCGTAGGTGCCATCCGCTGCTGGCGCAAGTGCTG
GCCGAAGATGAAGCAGAGCAGGACAGATGTCAGAACAGGGACAGCAACACCGACACCACCGTACTATGATGAC
CATCTGGCTGTCCGACACAGGCTCTGGGGAGGGAGGGGGCAAGGGTCTTAGACGTCTGTGATCCAGTTACCAG
GGACAAAAGGGAGTGGAAGTCCACCCCCAACCCAGACCCCCAGACCCCGCCGCCGCTCATGCATCCAGCAGTC
ACCCAGTTGCGAGAGATGAGTGGTGAATGGTGTCTGCATTAAATATTATCTGGAAAAAGGTGGCCAGGGCT
CAGGCTACCAGCTGGACTTCTGTGTGGCTGTGAGGGCAGATGTCCCTTGTGTCAGCAGCCATGGGACCAGTGTGTA
GCTGCTGGACACCGTGGCCTGGAGGGTGGCATGGTCCCAGCCAAGCCCCCTTCTTGGGCAGAGCTGAGTGAATTC
ATGCCAGGCTCCCTGTGTGCCGGCCGTCCAGGGTACCAAGCAGCAGAGCTCTGGGGACCTCAGTGGGGCAGTC
AGGCCAACTTCTCATTGTGGAGGGGAGCCAAGGCCAGGGAGAGCCGTCAAGGTGATGGGGCTTGATGGTGGCCG
AGGAACTAGTTGACCTCTCCCGACCTCTGGAGCAGTTGAGGTCCAAGCTGGGGACTTGGAAAGAACTTCAGGGAA
GAGGGAGAGTAAGAGGGAAGCCTCAGGATGAAGGGTGGGCTCCTGGGTGTTTGCTTCCAAGTGGGACTCAAGAT
TTTTCTTCCCCGAGGGGCTGAAAGTGACTTATCACTCCCACTCCATCCACGGATCCCCCTCACCATAGATCT
CCAACATCTTCGGGGCTGAGTGTGTTGTGAAAGATGTTGCCACCGCGAGACATCAAGTCCAGCACAGCCAGGCAGG
AGAAGTTGCGGTGGCCATCCTCTCTGTGAGCCGTGCTGTTGAATGTGGCTGTGGCCTCCTGCGGAGCAGGGGCTG
CCTTCCCGAAGGTCTCATAGTGCAGAGTCTCATTGCCACGGAACAGGAAGAGGGTGAGGCTGTCCAGGGGCTCCA
CGGTGGGCACCTGCACTCAATGGTGAAGGACTTGCCACAGCCACCAAGTGGGTGTCAGTGTGAGGATGACCT
GCCTTGGAGGCTCTGCAGGGGACAAAGGAGGGAGGTCTGCTCAGGATGGGGGTGAGTCCAGCAGCCTCCCCCT
GGCCAGGGCCATCTCTGTACCATGGTGTTCACGGTTGGGGAGGAGGTGGCCTGGCCGGCTCCAGTGCAGAGA
GGAAGAGGGCAGCAGTTGAGGATGAGGGCTGGACTGTGTGGTAGTTTACAGACATGATGGTTTCCGGTGACCAG
GTGTCTACAAGGACAAGGTTGAGAAATTGTACAGCCAAGTGGAAAGATATAAAAGTTGGGTCTGTCTCTCTCC
TTCAGAAATGAAATATAAATTTCAAACATTAACAGTTGGGTGATCACGTTG

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FIGURE 4925

MASGAGGSWGRSPQSAVPTPWVTFLOPLSWAVPPAPPQGRVKEDLLELMMLQNAQMHQLLSRLVAGALQPRP
ASPCPQVYLEVPQEEPEEEEEEMDVREKGPLVFHHHYLPYLMPSGALLPWPAPFFPTPACQPYLQDVPRIQHCP
ASREREVRAVPPPPPSATGTVGADVPPASDYYDAESLL

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FIGURE 4926

GGCGGCCAAACCTCCGGAGGCCGGGGACGGAAGGCGGGCCCGCAGCAGATCCTGGATCCGGAATCTCCCGGGCAG
GAGCGGAATCTGTCCCGAACCGGGTCTGTGAGGAACTCGCGAACTTGGATTAGGAAATCCCGGAGCCCGGATCGA
CAATCCCGGAACCCGGAATTAAGATCGCCAAGTCCCGGATCGCGGAGCACAGAGCACGGAGTGGACTCGACGCG
GAGCCCGGAGTCCGGATCGCGGCACCGCGGACGGGACGGAGCGATGTGCGGCCGAGGCGGGGCGGGTTCCCGC
TGCCCCCGCTAAGCCCTGGCGGCGGCGCGTGGCTGCGGCCCTGGGAGCGCCGCTCCCCCGCGGGACCCGGCA
TGCTGCCCCGACCGCGCTCCGGGGACCGGTCCGGCAGGAGGCGTGGGGGGCCCCGGGGCCCGCGCTTCCGCC
CCATGGGCCCCCGGGCCCCCGGGCGCAGTACCAGCGACCTGGCATGTACACAGGAACCGGATGCCCATGGCTG
GCTTGCAGGTGGGACCCCTGCTGGCTCCCCATTGGTGCAGCAGCTCCGCTTCGACCTGGCATGCCACCCACCA
TGATGGATCCATTCCGAAAACGCCTGCTTGTGCCCCAGGCGCAGCCTCCCATGCCTGCCAGCGCCGGGGGTAA
AGAGGAGGAAGATGGCAGATAAGGTTCTACCTCAGCGAATCCGGGAGCTTGTTCAGAGTCTCAGGCGTACATGG
ATCTCTTGGCTTTTGAGCGGAAGCTGGACCAGACCATTGCTCGCAAGCGGATGGAGATCCAGGAGGCCATCAAAA
AGCCTCTGACACAAAAGCGAAAGCTTCGGATCTACATTTCCAATACGTTTCTAGTCCCAGCAAGCGGAAGGCGATA
GTGCAGGAAGTGCAGGGACCCCTGGGGGAACCCAGCAGGGGACAAGGTGGCTTCTTGGGAAGTCCGAGTGGAAAG
GAAAGTCTGGATGATCTAGCAAACAGAAGAGGAAGTTTCTTCTTCTTAAGAGCCTCGTCATTGAGCTGG
ACAAGGAGCTGTACGGGCTGACAATCACCTGGTGGAGTGGCACCGGATGCCACCACCCAGGAGACAGATGGCT
TCCAAGTAAAACGGCCTGGAGACCTCAACGTCAAGTGCACCTCTCTGCTCATGCTGGATCATCAGCCTCCCCAGT
ACAAATTGGACCCCCGATTGGCAAGGCTGCTGGGAGTGCACACGAGACGAGGGCCGCCATCATGCAGGCCCTGT
GGCTTTACATCAAGCACAAACAGCTGCAGGATGGGCACGAGCGGGAGTACATCAACTGCAACCGTTACTTCCGCC
AGATCTTCAGTTGTGGCCGACTCCGTTTCTCCGAGATTCCCATGAAGCTGGCAGGGTTGCTGCAGCATCCAGACC
CCATTGTCATCAACCATGTCATTAGTGTGACCCCTAACGACCAGAAGAAGACAGCCTGTTACGACATCGATGTGG
AGGTGGACGACCCACTGAAGGCCCAAATGAGCAATTTTCTGGCCTCTACCACCAATCAGCAGGAGATCGCCTCCC
TTGATGTCAAGATCCATGAGACCATTGAGTCCATCAACAGCTGAAGACCCAGAGAGATTTTATGCTCAGTTTTA
GCACCGACCCCCAGGACTTCATCCAGGAATGGCTCCGTTCCCAGCGCCGAGACCTCAAGATCATCACTGATGTGA
TTGGAAATCCTGAGGAGGAGAGACGAGCTGCTTCTACCACCAGCCCTGGGCCCAGGAAGCAGTAGGCAGGCACA
TCTTTGCCAAGGTGCAGCAGCGAAGGCAGGAAGTGAACAGGTGCTGGGAATTCGCCTGACCTAACTGCTCAGGG
ATCTTTCTTCCCAGCCCTGGAGCCTGGAGGGAGACCACCTCTGGGTCTTGCTGGGGCCGAGACACGTAGGCT
GGGGTGAGGAGTGTCTGCTGTACCCCTCTACTCTCCAGCTTTAGTCTTATAAATGTAGTGATAGGATTCTTGT
GCTTGGTCCCCAAAGCCTTATACTTTTTGCATTGGCTTTAATTGGGTTTACGAGATGCCTCCTCTGCCCCCTGC
AGGCAGGCCCAAGTAGGACTGCTGGAGGCTGTGCTTTGACATTGTAAGACATTTCCGAACCAAAGGCTGCTGGGT
TTGCATGTTTACAGACTCCCCCTGGGGCGAGGGTCAGAGCTGGCTCTGGGGAGCTGGGCTAGGAAGAGGAGGTGC
AGCCCAGACTCTTCTAGCCTTTCTAAACCAAAGTTCTTTGCCATTCTTACAAGCCCAGCCTTGCTGCTGGTTTT
TTCCTTTCTTTGGGTATTTGCACTATTTTGGGAGCAAGTTTTCTATGTGGGAGCCACTTTTTTTGTACAGGGGT
AAGTTGGGGTTTTTCAGGGAGCCTGTTAGGTGCCTCCTTCTTTCTTCTCAATCTATGCAAGCGGCTCTGGCC
GCCATCATCTCTGGGATGCCAGAGGGCTGCCTCTCCAGCGGCTTGGGCCGGGGAGGGGACACTCCAGTTCTCTA
GCATGGCCTGAGGTATGGGGTATGTGCATGTGGAGGCCAGGGTAAGGTGAATGGGGAGGCTGGGAGGACTGGTGT
TGCCCTTTGGAGCTTGGTGAGGAGGGTGGGCCTAGGGCTTGGCGAGTGCCACATCTGGCAGGTTTGGAATTTCC
AAATAATCCTTTTGTCT

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FIGURE 4927

ATGCGCTTGACGGACCAGAGCAGATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAATATTATCTG
TCCAAGATTGAAGAACTCCAGCTGATTGTGAATGATAAGAGCCAAAACCTCCGGAGGCTGCAGGCACAGAGGAAC
GAACTAAATGCTAAAGTTCGCCTATTGCGGGAGGAGCTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAA
GTAGTCCGGGCCATGGATAAGAAGAAAAGTGTGGTCAAGGTACATCCTGAAGGTAAATTTGTTGTAGACGTGGAC
AAAAACATTGACATCAATGATGTGACACCCAATTGCCGGGTGGCTCTAAGGAATGACAGCTACACTCTGCACAAG
ATCCTGCCCCAACAAGGTAGACCCATTAGTGTCACTGATGATGGTGGAGAAAGTACCAGATTCAACTTATGAGATG
ATTGGTGGACTGGACAAACAGATCAAGGAGATCAAAGAAGTGATCGAGCTGCCTGTTAAGCATCCTGAGCTCTTC
GAAGCACTGGGCATTGCTCAGCCCCAAGGGAGTGCTGCTGTATGGACCTCCAGGCAGTGGGAAGACACTGTTGGCC
CGGGCTGTGGCTCATCATACGGACTGTACCTTTATTTCGTGTCTCTGGCTCTGAAGTGGTACAGAAATTCATAGGG
GAAGGGGCAAGAATGGTGAGGGAGCTGTTTGTTCATGGCACGGGAACATGCTCCATCTATCATCTTCATGGACGAA
ATCGACTCCATCGGCTCCTCGCGGCTGGAGGGGGGTTCTGGAGGGGACAGTGAAGTGCAGCGCACGATGCTGGAG
TTGCTCAACCAGCTCGACGGCTTTGAGGCCACCAAGAACATCAAGGTTATCATGGCTACTAATAGGATTGATATC
CTGGACTCGGCACTGCTTCGCCCAGGGCGCATTGACAGAAAAATTGAATTCCCACCCCCCAATGAGGAGGCCCGG
CTGGACATTTTGAAGATTCAATTCTCGGAAGATGAACCTGACCCGGGGGATCAACCTGAGAAAAATTGCTGAGCTC
ATGCCAGGAGCATCAGGGGCTGAAGTGAAGGGCGTGTGCACAGAAGCTGGCATGTATGCCCTGCGAGAACGGCGA
GTCCATGTCACTCAGGAGGACTTTGAGATGGCAGTAGCCAAGGTCATGCAGAAGGACAGTGAGAAAAACATGTCC
ATCAAGAAATTATGGAAGTGAGTGGACAGCCTTTGTGTGTATCTCTCCAATAAAGCTCTGTGGGCCAAGTC

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FIGURE 4928

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRRQLQAQRNELNAKVRLIREELQLLQEQGSYVGE
VVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRND SYTLHKILPNKVDPLVSLMMVEKVPDSTYEM
IGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKFIG
EGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQLDGFEATKNIKVIMATNRIDI
LDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTGRINLRKIAELMPGASGAEVKGVCTEAGMYALRERR
VHVTQEDFEMAVAKVMQKDSEKNMSIKKLWK

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FIGURE 4929

ATACTTGTGCGGTTCCAAGTGTGGAGAAAGCGGCTCTGGGTCTAGATTGAGGGATACTCCCCCTTTCCACCATGG
GCAAGAAGGGCAAAGTTGGCAAGAGCCGACGAGACAAGTTTTATCACTTGGCGAAGGAGACGGGTTACCGTTCCC
GATCTGCTTTCAAGCTGATCCAGCTCAATCGCCGCTTTTCAGTTCTGCAGAAAGCCCAGCCCTTGCTGGACCTGT
GTGCTGCGCCAGGGGGATGGCTGCAGGTAGCTGCCAAGTTTATGCCTGTATCCAGCCTTATTGTGGGAGTGGACC
TGGTTCCAATCAAGCCTCTCCCCAATGTGGTGACTCTCCAGGAGGACATCACAAACAGAACGTTGTAGGCAGGCCC
TGAGGAAGGAGCTGAAGACCTGGAAGGTTGATGTTGTGCTCAATGATGGGGCCCCAACGTTGGGGCTAGCTGGG
TCCATGATGCTTACTCACAAAGCCCATTTGACACTGATGGCTCTACGTTTGGCTTGTGACTTTTTGGCCCGTGGTG
GCAGCTTCATCACAAAGGTTTTCCGTTCTCGTGACTATCAGCCTCTGCTATGGATCTTTCAGCAGCTGTTCCGCC
GTGTCCAGGCCACCAAGCCCCAAGCCTCTCGCCATGAATCTGCAGAGATCTTGTAGTCTGCCAAGGATTCTCTGG
CCCCTGACAAGGTTGACAGTAAATTCTTTGACCCCAAATTTGCCTTTAAGGAGGTTGAAGTTCAGGCTAAGACCG
TTACTGAATTGGTTACTAAGAAGAAGCCAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTA
CCTCAGTCACTGACTTCTCCGAGCTGCCAACCTGTTGACTTCTCTCCAAGGCCAGCGAAATCATGGTAGATG
ATGAAGAGTTGGCACAGCATCCAGCTACCCTGAGGACATACGGGTGTGCTGTCAGGACATCAGAGTGTGGGGC
GCAAGGAGCTCAGGTCGCTACTAACTGGAGAACAAAACCTTCGGCGATATGTGGCCAAAGAAGCTGAAAGAACAAG
CAAAGGCACTGGACATCAGCCTCAGCTCTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCA
CAAAGCAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAGGAACAACCTGAACCAGACCTTGGCAGAAATGAAGG
CCCAGGAGGTGGCGGAATTGAAGAGGAAGAAAAAGAAGCTGTTGCGTGAGCAGAGAAAGCAGCGGGAGCGTGTGG
AGCTGAAGATGGATCTGCCGTTGGGTTTCCATTGCAGACGAGGGGGAGACTGGCATGTTCTCTTGTGCACCATCC
GGGGTCACCAAGTTATTAGAGGAAGTAACACAAGGGGATATGAGTGCAGCAGACACATTTCTGTCCGATCTGCCAA
GGGATGATATCTATGTGTGATGTTGAGGACGACGGTGTGATGACACATCTCTGGATAGTGACCTGGATCCAGAGG
AGCTGGCAGGAGTCAGGGGACATCAGGGTCTAAGGGACCAAAGCGTATGCGACTTACTGAAGTGAAGATGATA
AAGAGGAGGAGGAGGAGGAATCCACTGCTGGTACCCTGGAGGAAAAGGCAGTACTGCAGGAAGAACAAGCCA
ACCTGTGGTTCTCAAAGGGCAGCTTTGCTGGGATCGAGGACGATGCCGATGAGGCCCTGGAGATCAGTCAGGCC
AGCTGTTATTGAGAACC GCGGAAGGGACGGCAGCAGCAGCAGAAGCAGCAGCTGCCACAGACCCCCCTTCCT
GTTTGAAGACTGAGATAATGTCTCCCTGTACCAAGATGAAGCCCCTAAGGGAACAGAGGCTTCTTCGGGGACAG
AAGCTGCCACTGGCCTTGAAGGGGAAGAAAAGGATGGCATCTCAGACAGTGATAGCAGTACTAGCAGTGAGGAAG
AAGAGAGCTGGGAACCCCTCCGTGGTAAGAAGCGAAGCCGTGGGCCTAAGTCAGATGATGACGGGTTTGAGATAG
TGCCTATTGAGGACCCAGCGAAACATCGGATACTGGACCCCGAAGGCCTTGCTCTAGGTGCTGTTATTGCCTCTT
CCAAAAGGCCAAGAGAGACCTCATAGATAACTCCTTCAACCGGTACACATTTAATGAGGATGAGGGGGAGCTTC
CGGAGTGGTTTGTGCAAGAGGAAAAGCAGCACCGGATACGACAGTTGCTGTTGGTAAGAAGGAGGTGGAGCATT
ACCGGAAACGCTGGCGGGAATCAATGCACGTCCCATCAAGAAGGTGGCTGAGGCTAAGGCTAGAAAGAAAAGGA
GGATGCTGAAGAGGCTGGAGCAGACCAGGAAGAAGGCAGAAGCCGTGGTGAACACAGTGGACATCTCAGAACGAG
AGAAAGTGGCACAGCTGCGAAGTCTCTACAAGAAGGCTGGGCTTGGCAAGGAGAAACGCCATGTCACCTACGTTG
TAGCCAAAAAAGGTGTGGCCGCAAAGTGCCTCGGCCAGCTGGAGTCAGAGGTCATTTCAAGGTGGTGGACTCAA
GGATGAAGAAGGACCAAAGAGCACAGCAACGTAAGGAACAAAAGAAAAACACAAACGGAAGTTAAGCAGAGCTGC
CAGGCTCCAGGAGAGCATGGGGACTAGGAGGAAGGGTGTGGCATGGCTCAGTCTGCCCCCTTGATTACCGGCC
TAGCCCTTGCTCACATCACAGCTGTCTGAAGAACAGTGAGGTGGAGTGCCTAGAACTCCCGTGGTGGTCTCTGAGC
AGAGAGGAGGATGTCTCTGCTGCTGCTGAAGGTCTCCCATGAAAACACTGCTGAAGTGTGTTGACACTCATGAC
CCTTTTTTTAAACCGTTAAAGGGAAGTTCGGTGTGGAGCGATACTCAATGTAGTCAGTCTACACCTGGACGTGT
GGGCCACTTAAGCCCTCCCAACCCCATCCTATTCTAAATAAAACCAGGATAATGGAAAAA

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FIGURE 4930

MGKKGKVGKSRRDKFYHLAKETGYRSRFAFKLIQLNRRFQFLQKARALLDLCAAPGGWLQVAAKMPVSSLIIVGV
DLVP IKPLPNVVTLQEDITTERCRQALRKELKTWKVDVVLNDGAPNVGASWVHDAYSQAHLTLMALRLACDFLAR
GGSFITKVFRSRDYQPLLWIFQQLFRRVQATKPQASRHESAEIFVVCQGF LAPDKVDSKFFDPKFAFKEVEVQAK
TVTELVTKKKPKAEGYAEGDLTLYHRTSVTDFLRAANPVDFLSKASEIMVDDEELAQHPATTEDIRVCCQDIRVL
GRKELRSLNWRTKLRRYVAKKLKEQAKALDISLSSGEEDEGDEEDSTAGTTKQPSKEEEEEEEEEQNLNQT LAEM
KAQEV AELKRKKKKLLREQRKQREVELKMDLPGVSI ADEGETGMFSLCTIRGHQLLEEV TQGDM SAADTFLSDL
PRDDIYVSDVEDDGDDTSLDSLDPEELAGVRGHQGLRDQKRMRLTEVQDDKEEEEEENPLLVPLEEKAVLQEEQ
ANLWFSKGSFAGIEDDADEALEISQAQLLFENRRKGRQQQKQQLPQT PPSCLKTEIMSPLYQDEAPKGTEASSG
TEAATGLEGEEEKDGISDSSTSSEEEESWEPLRGKKRSRGPKSDDDGF EIVPIEDPAKHRI LDPEGLALGAVIA
SSKKAKRDLIDNSFNRYTFNEDEGELPEWFVQEEKQHRIRQLPVGKKEVEHYRKRWREINARPIKKVAEAKARKK
RRMLKRLEQTRKKA EAVVNTVDISEREKVAQLRSLYKKAGLGKEKRHV TYVVAKKG VGRKVR RPAGVRGHFKVVD
SRMKKDQRAQQRKEQKKKHKRK

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FIGURE 4931

ATCCCTTGAGGCCATTCATGGCTGAAGTGGAGGATCAGGCAGCTAGAGACATGAAGAGGCTTGAAGAAAAGGACA
AGGAAAGAAAAAACGTAAGGGTATTTCGAGATGACATTGAAGAGGAAGATGACCAAGAAGCTTATTTTCGATACA
TGGCAGAAAAACCAACTGCTGGTGTGGTTTCAGGAGGAAGAGGAAGACAATCTAGAATATGATAGTGACGGAAATC
CAATTGCACCTACCAAAAAATCATTGATCCTTCCCCCATTGATCATTAGAGATTGACTATCCACCAATTTG
AAAAAACTTTTACAATGAGCATGAAGAGATAACCAACCTCACTCCACAGCAGTTAATAGATCTCCGGCATAAGC
TCAATCTTCGGGTCTCTGGTGTGCACCTCCTAGACCAGGAAGTAGCTTTTGCTCATTTTGGGTTTGACGAACAAC
TTATGCACCAGATTGCGAAATCTGAATACACAGCCCACTCCAAATACAGTGCCAGGGTGTGCCTGTGGCATTAA
GTGGTAGAGACATGATTGGTATTGCCAAAACAGGTAGTGGGAAAAGTGCAGCCTTCATTTGGCCCATGTTGATT
ATATAATGGACCAGAAGGAGTTGGAACCAGGTGATGGACCAATGCAGTGATTGTGTCTACCAGGGAGCTTT
GCCAGCAGATCCATGCAGAAATGAAGCGGTTTGGAAAAGCATATAATCTTCGATCAGTGGCCGTATATGGAGGAG
GGAGTATGTGGGAGCAGGCCAAGGCCCTTCAGGAGGGGGCAGAGATTGTTGTGTGTACCCAGGTGACTGATAG
ATCATGTGAAAAAGAAAGCTACCAATCTTCAAGAGTCTCTTACCTTGTGTTTGATGAAGCAGATCGAATGTTTG
ACATGGGATTGAGTACCAAGTTTCGATCCATAGCAAGTCATGTTTCGTCTGACAGGCAGACTCTCTTATTTAGTG
CAACTTTTCGAAGAAGATTGAAAAGTTGGCCAGAGACATCCTGATCGACCCTATTTCGAGTGGTGCAGGGAGATA
TTGGAGAGGCAAAATGAAGATGTGACACAGATTGTGGAGATTCTCCATTCTGGACCTAGTAAATGGAAGTGGCTTA
CCCGGCGTCTGGTAGAATTTACCTCTTCAGGGAGTGTCTCTCTTTGTTACTAAAAAGCCAATGCTGAAGAGC
TAGCGAATAACCTTAAACAGGAGGGTCTAATCTTGGGCTGCTCCATGGGGATATGGATCAGAGTGAGAGAAACA
AGGTCAATTTAGACTTTAAGAAAAAGGACATCCAGTCTCTGGTGGCCACAGATGTTGCAGCCCGTGGTCTGGACA
TTCCTTCAATTAAGACTGTCTAATACTATGATGTGGCACGAGACATTGATACCCACACGCATAGGATTGGCCGCA
CAGGAAGAGCGGGTGAAGAGGTGTGGCCTATACCCTACTCACTCCCAAGGACAGCAATTTTGTGGTGACCTGG
TCCGGAACCTGGAAGGAGCCAATCAACACGTTTCTAAGGAACCTCTAGATCTGGCAATGCAGAATGCCTGGTTTC
GGAAATCTCGATTCAAAGGAGGGAAAGGAAAAAGCTGAACATTGGTGGAGGAGGCCTAGGCTACAGGGAGCGGC
CTGGCCTGGGCTCTGAGAATCGGATCGAGGAATAACAATGTAATGAGCAATTATGAGGCCTACAAGCCTTCCA
CAGGAGCTATGGGAGATCGACTAACGGCAATGAAAGCAGCTTTCAGTCACAGTACAAGAGTCACTTTGTTCAG
CCAGTTTAAGTAATCAGAAGGCTGGAAGTTCTGCTGCTGGGGCAAGTGGGTGGACTAGTGCAGGGAGCTTGAATT
CTGTTCCAATACTCAGCACACAGGGCCATAACAGTCTTGACAGCCCCGTACCCAGTGCCGCCAAGGGCATCC
CAGGCTTTGGCAATACTGGCAACATCAGTGGTGGCCCTGTGACCTACCCGTCTGCCGGAGCCCAAGGAGTCAACA
ACACAGCTTCAGGGAATAACAGCCGAGAAGGGACTGGGGGCAGCAACGGGAAAAGAGAGATATACTGAGAACC
GGGGCAGCAGCCGTCACAGTCACGGAGAGACTGGCAATCGGCATAGCGATAGTCCACGTACGGAGATGGTGGT
CGCCATGGAGATGGATACCGCCATCCAGAAAGCAGCAGCCGTCACTGATGGCCATCGGCACGGGGAGAACAGA
CATGGAGGAAGCGCAGGCCGGCATGGGGAGAACCGGGGTGCAATGATGGTCGGAATGGGGAAAGCAGGAAAGAA
GCTTTTAATCGTGAGAGCAAGATGGAGCCCAAGATGGAACCCAAAGTGGACAGCAGCAAGATGGACAAGGTGGAC
AGCAAGACAGATAAGACAGCTGACGGCTTTGCTGTCCAGAGCCGCTAAACGCAAGAAAAGTCGATGGGACAGT
TAGAGGGGATGTGCTAAAGCGTGAAATCAGTTGTCTTAATTTTAGAAAGATTTTGGTAAGTGGTGTCTCAGG
GCTGGGTGGGGTCCAAAGTGAAGGACCCCTGCCCTTAGTGGAGAGCTGGAGCTGGAGACATTACCCCTTCA
TCAGAAGGAATTTTCGGATGTTTTCTTGGGAAGCTGTTTTGGTCTTGGAGCAGTGAGAGCTGGGAAGCTTCTT
TTGGCTCTAGGTGAGTTGTCTGTGGGTAAGTTGAGTTATCTTGGGATAAAGGTCTTCTAGGGCACAAAATC
ACTCTAGGTTTATATTGTATGTAGCTTATATTTTACTAAGGTGTCACCTTATAAGCATCTATAAATTGACTTC
TTTTCTTAGTTGTATGGCCAGGCAGTCCCATTAGGAGTTGGCTTCTGCAATTCATCCATTGAGCTAACT
GTTGGGGAGCAATTTGGTAGTTGTAGACATTGCAGGGAAGGGAGATGTCTGATTCTAAATGGGAGTTGATGCTC
AGGTCCCCAGCCAGGTTTGCATCCAGCCCTGAGACATGTAGGAAACACCTTTAGACCCAGGCTCTGAAGATTCC
CAGAAGCCACAAGGATTGAAGGGAAGAGGTGATCCTGGTAAGTGTCCAGGATTGCTCCAGGTTTGAGATGGTAT
TGCTAAATTTAAATTAACAAGAAACCAACAACAGCTTTTAAAGTGTCTTCTATCTCATTGTATTTTTTTAA
CTTGCCCCTAATGATAGAAAAGTCTTTTGCTGAAATGATTTTGATGATTTTGTATATCGTTTATAAAAAGGAAAA
GAAATATACAACTTTGACTTTTGTGAAAAAAGGAAAAA

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FIGURE 4932

MAEVEDQAARDMKRLEEKDKERKNVKGIRDDIEEEDDQEAYFRYMAENPTAGVVQEEEDNLEYDS DGNPIAPTK
KIIDPLPPIDHSEIDYPPFEKNFYNEHEEITNLTPQQLIDLRHKLNLRVSGAAPPRPGSSFAHFGFDEQLMHQIR
KSEYTQPTPIQCQGVVALSGRDMIGIAKTGSGKTAAFIWPMLIHIMDQKELEPGDGPIAVIVCPTRELCQQIHA
ECKRFGKAYNLRSAVYGGGSMWEQAKALQEGAEIVVCTPGRLIDHVKKKATNLQRVSYLVFDEADRMFDMGFY
QVRSIASHVRPDRQTLLFSATFRKKIEKLARDILIDPIRVVQGDIGEANEDVTQIVEILHSGPSKWNWLTRLVE
FTSSGSVLLFVTKKANAEELANNLKQEGHNLGLLHGDMDSERNKVISDFKKKDIPVLVATDVAARGLDIPSIT
VINYDVARIDIDTHTRIGRTGRAGEKGVAYTLLTPKDSNFAGDLVRNLEGANQHVSKELLDLAMQNAWFRKSRFK
GGKGKKNIGGGGLGYRERPGLGSENMDRGNNVMSNYEAYKPSTGAMGDRLTAMKAAFQSQYKSHFVAASLSNQ
KAGSSAAGASGWTSAAGSLNSVPTNSAQQGHNSPDSPVTSAAKGIPGFGNTGNI SGAPVTYPSAGAQQVNNTASGN
NSREGTGGSNGKRERYTENRGSSPSQSRRDWQSA

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FIGURE 4933

CCGCCGCCGGGCCCCCGGCATGCAGCCCCGGCTGCGGAGGTGACACTCACGGACCTTAGCCACCGCCGCCCA
TCGCCACCATGGACGAACAGGAGGCATTGAACTCAATCATGAACGATCTGGTGGCCCTCCAGATGAACCGACGTC
ACCGGATGCCTGGATATGAGACCATGAAGAACAAGACACAGGTCACCTCAAATAGGCAGAGTGACGTCAGAATCA
AGTTCGAGCACAACGGGGAGAGGCGAATTATAGCGTTACGCCGGCCTGTGAAATATGAAGATGTGGAGCACAAGG
TGACAACAGTATTTGGACAACCTCTTGATCTACATTACATGAACAATGAGCTCTCCATCCTGCTGAAAAACCAAG
ATGATCTTGATAAAGCAATTGACATTTTAGATAGAAGCTCAAGCATGAAAAGCCTTAGGATATTGCTGTTGTCCC
AGGACAGAAAACCATAACAGTTCTCTCCCCACTCTGAGGTGTCCAGACAGGTGCGGATCAAGGCTTCCCAGTCCG
CAGGGGATATAAATACTATCTACCAGCCCCCGAGCCAGAACGAGGCACCTCTCTGTGAGCTCCAGAACCTTG
GCCGAAGCTACCTCCCCCTGGCTATGTTCTGAGCGGCAGCAGCACATTGCCCGGCAGGGGTCTACACCAGCA
TCAACAGTGAGGGGGAGTTCATCCCAGAGACCAGCGAGCAGTGCGATGCTGGATCCCCCTGAGCAGTGCGAAAAATT
CCTTGCTGGAAGCTGCCAATCCTTGGACAGGTGAGCAGACAGCCCATCCTTCCGGAAATCACGAATGTCCCGTG
CCCAGAGCTTCCCTGACAACAGACAGGAATACTCAGATCGGGAAACTCAGCTTTATGACAAAGGGGTCAAAGGTG
GAACCTACCCCCGGCGTACCACGTGTCTGTGCACCACAAGGACTACAGTGATGGCAGAAGAATTTCCCCGAA
TACGGCGTCATCAAGGCAACTTGTTCACCTGGTGCCCTCCAGCCGCTCCCTGAGCACAATGGCGAGAATGG
GTCTGGCTGTGCAATACCTGGACCCCCGTGGGCGCCTGCGGAGTGCGGACAGCGAGAATGCCCTCTCTGTGCAGG
AGAGGAATGTGCCAACCAAGTCTCCAGTGCCCCCATCAACTGGCGCCGGGAAAGCTCCTGGGCCAGGGTGCCT
TCGGCAGGGTCTATTTGTGCTATGACGTGGACACGGGACGTGAACCTTGCTTCCAAGCAGGTCCAATTTGATCCAG
ACAGTCTGAGACAAGCAAGGAGGTGAGTGCTCTGGAGTGGAGATCCAGTTGCTAAAGAATTCAGCATGAGC
GCATCGTGCACTACTATGGCTGTCTGCGGGACCGCGTGTGAGAGACCCTGACCATCTTCATGGAGTACATGCCAG
GGGGCTCGGTGAAAGACCAGTTGAAGGCTTACGGTGCTCTGACAGAGAGCGTGACCCGAAAGTACACGGCGCAGA
TCCTGGAGGGCATGTCTACCTGCACAGCAACATGATTGTTACCGGGACATTAAGGGAGCCAACATCTCCGAG
ACTCTGCTGGGAATGTAAAGCTGGGGGACTTTGGGGCCAGCAAACGCCTGCAGACGATCTGTATGTGCGGGACGG
GCATGCGCTCCGTACTGGCACACCCTACTGGATGAGCCCTGAGGTGATCAGCGCGAGGGCTATGGAAGGAAAG
CAGACGTGTGGAGCTGGGCTGCACTGTGGTGAGATGTGACAGAGAAACCACCGTGGGCAGAGTATGAAGCTA
TGGCCGCCATCTTCAAGATTGCCACCCAGCCACCAATCTCAGCTGCCCTCCCACATCTCTGAACATGGCCGGG
ACTTCTGAGGCGCATTTTGTGGAGGCTCGCCAGAGACCTTCAGCTGAGGAGCTGCTCACACACCCTTTGCAC
AGCTCATGTACTGAGCTCTCACGGCCACACAGCTGCCGCTGCCCTTTGTGCTGATGGCAGGGGGCTGCTGCTGGG
CTCAGTGAAGTTGTGCTTCTCCCAGGCAAGGCTGTGGACCATGGAGTGGCAGCCAGCCAGCGTCGGTCTGTGC
CCCTTCCGCCACTGGGGCTCAGAGCCGGGGTGGGGTGGCTGCAGCCTCAGGACTGGGAGCCCCAGCCTGTGAGA
TCCAGGAGCTCCAGTGTCTGAGCTCAGCGTGGAGGGGTAGGGGCTGGGAACAGTGTGCAAGGCAGCCGTGGGCC
CCACCTCGGGGATGTGCTCTGACACTGCAATTGGCACCGAAGCCAGAGGGTCTGGGGGCACAAGACTGACGCC
AGGGTATGAAGAGTGTATTTTCAATCAAAGTGTATTTTGTCTTTTCTTCCAATGTCTGGAGACCACAGGGCA
TCTCTGGGCTGGATGAGCTCCACAAGCCTGAGGGAAAGGCCAGCACTGCTAGCAGTGGCAGGCAGAGGCCAG
GCTGCCGTCCCTAGAGTCCAGGTTGGCTCTGCCAGTCTGTCTTTACCAAAGATGAATGAAGCAAATGTCAT
GCTGCCCTTATTAGGGAAGGAGGAGCCTGTCTGCTGTGGCCATGACCCTGCCTCTCCCAGGCAGGGGGCCCGG
ATGTGGAACGTCTGCCACTGAGGGGGGATCCAGTTTTGTCAATGCAGTTGTCTCTGTTTTACAAGTTGGAGTCAC
TCTTATGCTGTACCCAGTTTCTAACTGGAGACTGTGTGTCCTCTGGGCTCTGAGTACCCTGCTTTGGGCTT
GGGCTTAGGCTGCATTGAAAAGAGCTGAAGGTTGTGGCCTTTGCGCTCCTGGCCAGCCTTGTTCCTCCACTGGA
GCAGAAGGGGAGATGGACGACACGGTGGGGGCATCTGGCCTGGCCAGTGCCCTGATCCCAGAGAGCCCGAGGAGG
TGCTCAGGCTGCCTGAGTCGTGACCTGCTAGGCCAGAGCCCACTCCATCTGGTAGAAGGGAAAGCCCATATGCT
ACCACCAGCTGTGTCAAACCGCCAGCTCTGTTCTTCTCAGCCAGCCTCGCCCATCCCTTGAGGTCTCAGCC
CCTTTCCCTTGTAGCTCCTCCCTGGAGGGGGAATGGCAGCAGGGGTGGGGAAACAGCATCTCCAAGCAGCTTA
GAGTTGGCCATATTACCTCAGCTGGGCGCTGGTCTTTCTTCCGGCCCCCTCCCTCCAAATGTGCCTATTGC
TAGAGCTCCTCCCTCTCAACACCCAGTTTCTTGGGAGTTGTCAATTAAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4934

MDEQEALNSIMNDLVALQMNRRHRMPGYETMKNKDTGHSNRQSDVRIKFEHNGERRIIAFSRPVKYEDVEHKVTT
VFGQPLDLHYMNNELSILLKNQDDLDKAIDILDRSSSMKSLRILLLSQDRNHNSSSPHSEVSRQVRIKASQSAGD
INTIYQPPEPRSRHLSVSSQNPGRSSPPPGYVPERQQHIARQGSYTSINSEGEFIPETSEQCMLDPLSSAENSLS
GSCQSLDRSADSPSFRKSRMSRAQSFPDNRQEYSRETQLYDKGVKGGTYPRRYHVSVHHKDYS DGRRIFPRIRR
HQGNLFTLVPSSRSLSTNGENMGLAVQYLDPRGRLRSADSENALSVQERNVPTKSPSAPINWRRGKLLGQAFGR
VYLCYDVDTGRELASKQVQFDPDSPETSKEVSALECEIQLLKNLQHERIVQYYGCLRDRAEKTLTIFMEYMPGGS
VKDQLKAYGALTESVTRKYTRQILEGMSYLHSNMIVHRDIKGANILRDSAGNVKLGDFGASKRLQTICMSGTGMR
SVTGTPYWMSPEVISGEGYGRKADVWSLGCTVVEMLTEKPPWAEYEAMAAIFKIATQPTNPQLPSHISEHGRDFL
RRIFVEARQRP SAEELLTHHFAQLMY

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FIGURE 4935

AGAAGGAGGCCCCAACCCCTGAGCACAACAGCAACCTGGCCAATATCTTAGAGGTGTGTCGACAGCAAACATATGCC
CAAGTCAACGATTGAGACAGCACTGAAAATGGAGAAATCCAAGGACACTTATTTGCTGTATGAGGGTCGAGGCCC
TGGTGGCTCTTCTCTGCTCATCGAGGCATTATCTAACAGTAGCCACAAGTGCCAAGCAGACATTAGACATATCCT
GAATAAGAATGGAGGAGTGATGGCTGTAGGAGCTCGTCACTCTTTTGACAAAAGGGGGTGATTGTGGTTGAAGT
GGAGGACAGAGAGAAGAAGGCTGTGAACCTAGAGCGTGCCCTGGAGATGGCAATCGAAGCAGGAGCTGAGGATGT
CAAGGAAACTGAAGATGAAGAAGAAAGGAACGTTTTTAAATTTATTTGTGATGCCCTTTCACTGCACCAAGTGAG
GAAGAAGCTGGACTCCCTGGGCCTGTGTTCTGTGTCCTGTGCACTAGAGTTCATCCCCAACTCAAAGGTGCAGCT
GGCTGAGCCCGACCTGGAACAGGCCGCACATCTCATTACAGGCTCTCAGCAACCACGAGGATGTGATTCACGTCTA
TGATAACATTGAATAACCAGGCTACATGTGCCCCGGGTTCCCTTAGAAATGTGGCAGCCCATTCCAGCACAC
AGGCTTCTGCAGCAATCTCTGAGGGTAAAGCCGGTGGGAGGCTCAGCAGGCCAGGAGGCCAAGGACAGGACTTG
CGACCTTGAAGCCAAAGGAATCTCACTTGTGGGGCCTCCTTGTGAGCTCTGCTGCTGTCTCAGAGCCATCTGGAT
GAGTGTCCCGACACCCTCTCGGATGCAGGGCAGGACCACCCAGCTGGTCAGACTCTGATGTTGGGTAGCTGGCCT
CTGTGGGGATTGTAAGTGCCCTGAGGCGCTCTGTACTAGAACTGCTCTTAATAATAACGGTGATTATTGGTTGC
TGC

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FIGURE 4936A

CGGAGGAGGACGCGAGCCCTTGCGGGCGGTATCACAGCCAGCCTCGGGGCTGCCACAGCGCTTGCGCCTGT
GCGCCCTCGGTCCCGCGTCCACTGAGCGCCGCGCTCGGGGATGGGGCCCGCCGCGCCCGCCCGCGCCCTGGC
CTCGTCACCTGCTGCGCTGCGTCTGCTCCTCGGGTGCTGACCTCGGCCGTCCCGGCGCCCTGGGGACCCG
CCCTCCCGGAACCCAACTCTTCTCATCTTCAGCCATGGACTGCAGGGCTGCCTGGAGGCCAGGGCGGGCAGG
TCAGAGTCACCCCGGCTTGCAATACCAGCCTCCCTGCCAGCGCTGGAAGTGGGTCTCCCGAAACCGGCTATTCA
ACCTGGGTACCATGCAGTGCCTGGGCACAGGCTGGCCAGGCACCAACACCACGGCCTCCCTGGGCATGTATGAGT
GTGACCGGGAAGCACTGAATCTTCGCTGGCATTGTCTGCTACACTGGGTGACCAGCTGTCTTGCTCCTGGGGGCC
GCACCAGCAACATATCCAAGCCTGGCACCCCTTGAGCGTGGTGACCAGACCCGAGTGCCAGTGCGCATCTACG
GCAGCGAGGAGGACCTATGTGCTTGCCCTACCAGAGGTCTACACCATCCAGGGAACCTCCACGGAAGCCGT
GCACCATCCCTTCAAATATGACAACCACTGGTTCCACGGCTGCACCAGCACGGGCCGCGAGGATGGTACCTGT
GGTGTGCCACCCAGGACTACGGCAAAGACGAGCGCTGGGGCTTCTGCCCATCAAGAGTAACGACTGCGAGA
CCTTCTGGGACAAGGACCAGCTGACTGACAGCTGTACAGTTTAACTTCCAGTCCACGCTGTCTGTTGGAGGAGG
CCTGGGCCAGCTGCGAGCAGCAGGGTGCGGATCTGCTGAGCATCACGGAGATCCACGAGCAGACCTACATCAACG
GCCTCCTCACTGGGTACAGCTCCACCCTGTGGATCGGCTTGAATGACTTGGACACGAGCGGAGGCTGGCAGTGGT
CGGACAACCTCGCCCTCAAGTACCTCAACTGGGAGAGTGACCAGCCGGAACAACCCAGTGAGGAGAAGTGTGGAG
TGATCCGCACTGAGTCTCGGGCGGCTGGCAGAACCGTGACTGCAGCATCGCGTGCCTATGTGTGAAGAAGA
AGCCCAACGCCACGGCCGAGCCACCCCTCCAGACAGGTGGGCCAATGTGAAGGTGGAGTGCGAGCCGAGCTGGC
AGCCCTTCCAGGGCCACTGCTACCGCCTGCAGGCCGAGAAGCGCAGCTGGCAGGAGTCCAAGAAGGCATGTCTAC
GGGGCGGTGGCGACCTGGTACGATCCACAGCATGGCGGAGCTGGAATTCATACCAAGCAGATCAAGCAAGAGG
TGGAGGAGCTGTGGATCGGCTCAACGATTTGAACTGCAGATGAATTTGAGTGGTCTGACGGGAGCCTTGTGA
GCTTACCCACTGGCACCCCTTTGAGCCCAACAACCTCCGGGACAGTCTGGAGGACTGTGTACCATCTGGGGCC
CGGAAGGCCGCTGGAACGACAGTCCCTGTAACCACTGCTTGCATCCATCTGCAAGAAGGCAGGCCAGCTGAGCC
AGGGGGCCCGCAGGAGGACCATGGCTGCCGGAAGGGTTGGACGTGGCACAGCCCATCCTGCTACTGGCTGGGAG
AAGACCAAGTGACCTACAGTGAGGCCCGGCGCTGTGCACTGACCATGGCTCTCAGCTGGTACCATCAACA
GGTTCGAGCAGGCCTTCGTCAGCAGCCTCATCTACAACCTGGGAGGGCGAGTACTTCTGGACGGCCCTGCAGGACC
TCAACAGCACCAGCTCCTTCTTCTGGCTCAGTGGGGATGAAGTCATGTACACCCACTGGAACCGGGACAGCCCG
GGTACAGCCGTGGGGGCTGCGTGGCGCTGGCCACTGGCAGCGCCATGGGGCTGTGGGAGGTGAAGAACTGTACCT
CGTTCCGGGCCCCGTACATCTGCCGGCAGAGCCTGGGCACTCCAGTGACCGCGAGCTGCCGGGGCCAGATCCCA
CGCCAGCCTCACTGGCTCCTGTCCCCAGGGCTGGGCCTCGGACACCAAACTCCGGTATTGCTATAAGGTGTTCA
GCTCAGAGCGGCTGCAGGACAAGAAGAGCTGGGTCCAGGCCAGGGGGCTGCCAGGAGCTGGGGGCCAGCTGC
TGAGCCTGGCCAGCTACGAGGAGGAGCACTTTGTGGCCAACATGCTCAACAAGATCTTCGGTGAATCAGAACCCG
AGATCCACGAGCAGCACTGGTTCTGGATCGGCCTGAACCGTCGGGATCCAGAGGGGGTCAAGTTGGCGCTGGA
GCGACGGCGTAGGGTTCTTTACCACAATTTGACCGGAGCCGGCAGCAGCAGCAGCATCCGAGGCTGTGCGG
TGCTGGACCTGGCCTCCCTGCAGTGGGTGGCCATGCAGTGGACACACAGCTGGACTGGATCTGCAAGATCCCCA
GAGGTACGGACGTGCGGGAGCCCGACGACAGCCCTCAAGGCCGACGGGAATGGCTGCGCTTCCAGGAGGCCGAGT
ACAAGTTCTTTGAGCACCCTCCACGTGGGCGCAGGCGCAGCGCATCTGCACGTGGTTCCAGGCCGAGCTGACCT
CCGTGCACAGCCAGGCAGAGCTAGACTTCTGAGCCACAACCTGCAGAAGTTCTCCCGGGCCAGGAGCAGCACT
GGTGGATCGGCCTGCACACCTCTGAGAGCGATGGGCGCTTCAGATGGACAGATGGTTCCATTATAAACTTCATCT
CCTGGGCACCAGGCAAACCTCGGCCTGTGCGCAAGGACAAGAAGTGGTGTACATGACAGCCAGCCGAGAGGACT
GGGGGAGCAGAGGTGCTGACAGCCTTGCCCTACATCTGCAAGCGCAGCAACGTCACCAAGAAACGCAGCCCC
CAGACCTGCCAACTACAGCCCTGGGGGGCTGCCCCCTGACTGGATCCAGTTCTCAACAAGTGTTCAGGTCC
AGGGCCAGGAACCCAGAGCCGGGTGAAGTGGTCAGAGGCACAGTTCTCCTGTGAACAGCAAGAGGCCAGCTGG
TCACCATCACAACCCCTTAGAGCAAGCATTATCACAGCCAGCCTGCCCAATGTGACCTTTGACCTTTGGATTG
GCCTCCATGCCTGCGAGAGGACTTCCAGTGGGTGGAGCAGGAGCCTTTGATGTATGCCAACTGGGCACCTGGGG
AGCCCTCTGGCCCTAGCCCTGCTCCAGTGGCAACAAACCGACAGCTGTGCGGTGGTCTGCACAGCCCTCAG
CCCACTTCACTGGCCCTGGGACGATCGGAGCTGCACGGAGGAGACCCATGGCTTCATCTGCCAGAAGGGCACGG
ACCCCTCCCTGAGCCGCTCCCGAGCAGCGCTGCCCCCGCCCCGGGCACTGAGCTCTCCTACCTCAACGGCACCT
TCCGGCTGCTTCAAGACCGCTGCGCTGGCAGATGCCCTCCTGCTGTGTGAGAGCCACAATGCCAGCCTGGCCT

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FIGURE 4936B

ACGTGCCCCGACCCCTACACCCAGGCCTTCCTCACGCAGGCTGCCCCAGGGGCTGCGCACGCCGCTCTGGATTGGGC
TGGCTGGCGAGGAGGGCTCTCGGCGGTACTCCTGGGTCTCAGAGGAGCCGCTGAACTACGTGGGCTGGCAGGACG
GGGAGCCGCAGCAGCCGGGGGGCTGTACCTACGTAGATGTGGACGGGGCCTGGCGCACCACCAGCTGTGACACCA
AGCTGCAGGGGGCTGTGTGTGGGGTTAGCAGTGGGCCCCCTCCTCCCCGAAGAATAAGCTACCATGGCAGCTGTC
CCAGGGACTGGCAGACTCCGCGTGGATTCCCTTCCGGGAGCACTGCTATTCTTTCCACATGGAGCTGCTGCTGG
GCCACAAGGAGGCGGACAGCGCTGCCAGAGAGCGGGTGGGGCCGCTCTGTCTATCCTGGATGAGATGGAGAATG
TGTTTGTCTGGGAGCACCTGCAGAGCTATGAGGGCCAGAGTCGGGGCGCCTGGCTGGGCATGAACTTCAACCCCA
AAGGAGGCACTCTGGTCTGGCAGGACAACACAGCTGTGAACTACTCCAAGTGGGGGCCCCGGGCTTGGGCCCCA
GCATGCTGAGCCACAACAGCTGCTACTGGATTAGAGCAACAGCGGGCTATGGCGCCCCGGCGCTTGACCAACA
TCACCATGGGTGTCGTCTGCAAGCTTCCTCGTGTGAGCAGAGCAGCTTCTCCCCATCAGCGCTTCCAGAGAACC
CAGCGGCCCTGGTGGTGGTGTGATGGCGGTGCTGCTGCTCCTGGCCTTGCTGACCGCAGCCCTCATCCTTTACC
GGAGGCGCCAGAGCATCGAGCGCGGGGCTTTGAGGGTGCCCGCTACAGCCGCAGCAGCTCCAGCCCCACCGAGG
CCACTGAGAAGAACATCCTGGTGTGAGACATGGAAATGAATGAGCAACAAGAATAGAGCCAGGCGCGTGGGCAGG
GCCAGGGCGGGAGGAGCTGGGGAGCTGGGGCCCTGGGTGAGTCTGGCCCCCACCAGCTGCCTGTCCAGTTGGCC
TATGGAAGGGTGCCCTTGGGAGTCGCTGTTGGGAGCCGGAGCTGGGCAGAGCCTGGGCTGGTGGGGTGCCACCCT
CCCACAAGGGCTGGGCTGAGACCCAGCTGAGTGCAGCGTGGCGTTTCCCTTTCTGGGGGGGCTGAGGTCTTGTC
ACCTGGTCTGTGCCCCCACAGGAACAGAGGTAGGATGGGAGGGGGAACGAGAGCCTCTTTCTCCCCAGAGCCC
CCGGCCAGGCCTGTTGATCCGCGCCCCAGGACCCCTTCTTTGCAGAGCCCAGGAGCCTCCCCTGTCCCCTCG
GGCAGATCTGTTGTGTCTCTTCCCACCTGGCAGCCTCAGCTCTGTGCCCTCACCTGCTCCCTCTCGCCCCT
TCTCTCCCACCCCTTCTTCTGAGCCGGGCCCTGGGGATTGGGGAGCCCTCTTGTTCCTGATGAGGGTCAGCTGA
GGGGGCTGAGCATCCATCACTCCTGTGCCTGCTGGGGTGGCTGTGGGGCGTGGCAGGAGGGGCTAGGTGGGTG
GGCCTGAGAACCAGGGCACGGGTGTGGTGTCTGCTGGGCTGGAGATAAGACTGGGGAGAGACACCCCAACCTCCC
AGGGTGGGAGCTGGGCGGGCTGGGATGTCTCTCTGCGGGCGGGGAGGGCTCTGCCCCTGGAAGAGTCCCC
TGTGGGGACCAAAATAAGTTCCCTAACATCTCCAGCTCCTGGCTCTGGTTTGGAGCAAGGGGAAGGGTTGCCAGA
GTCCTGGGGGCCCCAGAGGAGCAGGAGTCTGGGAGGGGCCAGAGTTCACCCTCTAGTGGATCCAGGAGGAGCAGC
ACCCGAGCCCTGGAGTGGCCAGTACCCTTCCAAGAGGCCACAGTCCCAGCCAGGACAAAGTATGCGGCCCATCC
TGGTGGCAGACGCTGGGACAATGTGAACATGGACTCGAAGACATGCCCTTTCTCTGTAGTTGATTTTTTAAATG
TGCCATTATTGTTTTT

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FIGURE 4937

MGPGRPAPAPWPRHLLRCVLLLGCLHLGRPGAPGDAALPEPNVFLIFSHGLQGCLQAQGGQVRVTPACNTSLPAQ
RWKWVSRNRLFNLTGMQCLGTGWPGTNTTASLGMIECDREALNLRWHCRTLGDLQSLLLGARTSNISKPGTLERG
DQTRSGQWRIYGSEEDLCALPYHEVYTIQGNSHGKPCITIPFKYDNQWFHGCTSTGREDGHLWCATTQDYGKDERW
GFCPIKSNDCEFTWDDQDLTDSCYQFNQSTLSWREAWASCEQQGADLLSITEIHEQTYINGLLTGYSSTLWIGL
NDLDTSGGWQSDNSPLKYLNWESDQPDNPSEENCGVIRTESSGGWQNRDCSIALPYVCKKKPNATAEPTPPDRW
ANVKVECEPSWQPFQGHYRLQAEKRSWQESKKACLRGGGDLVSIHSMAELEFITKQIKQEVEELWIGLNDLKLO
MNFESDGSLSVFTWHHPFEPNNFRDSLEDCVTIWGPEGRWNSPCNQSLPSICKKAGQLSQGAEEEDHGCRKGW
TWHSPSCYWLGEDQVTYSEARRLCTDHGSQLVITITNRFEQAFVSSLIYNWEGEYFWTALQDLNSTGSFFWLSGDE
VMYTHWNRDQPGYSRGGCVALATGSAMGLWEVKNCTSFRRARYICRQSLGTPVTPPELPGPDPTPSLTGSCPQGWAS
DTKLRYCYKVFSSERLQDKKSWVQAQACQELGAQLLSLAYEEEEHFVANMLNKIFGESEPEIHEQHWFWIGLNR
RDPRGGQSWRWSGVGFSYHNFDRSRHDDDDIRGCAVLDSLQWVAMQCDTQLDWICKIPRGTDVREPDDSPQG
RREWLRFQEAQYKFFEHSTWAQAQRICWFAELTSVHSQAEFLSHNLQKFSRAQEQHWWIGLHTSESDGRF
RWTGSIINFISWAPGKPRPVGDKKKCVYMTASREDWGDQRCLTALPYICKRSNVTKETQPPDLPTTALGGCPSD
WQFLNLCFQVQGEQPSRVKWEAQFSCEQQAQLVTITNPLEQAFITASLPNVTFDLWIGLHASQRDFQWVEQ
EPLMYANWAPGEPSPGSPAPSGNKPTSCAVVLHSPSAHFTGRWDDRSCTEETHGFCQKGTDPSPSPALPPA
PGTELSYLNCTFRLLQKPLRWHDALLLCESHNASLAYVDPYTAFLTQAARGLRTPWIGLAGEEGSRYSWVS
EEPLNYVGWQDGEPPQGGCTYVDVDGAWRTTSCDTKLQGAVCGVSSGPPPPRRISYHGSCPQGLADSAWIPFRE
HCYSFHMELLGHKEARQRCQRAGGAVLSILDEMENVFVWEHLQSYEGQSRGAWLGMNFNPKGGTLVWQDNTAVN
YSNWGPPGLGPSMLSHNSCYWIQSNGLWRPGACTNITMGVVCKLPRAEQSSFSPSALPENPAALVVVLMVALLL
LALLTAALILYRRRQSIERGAFEGARYSRSSSSPTEATEKNILVSDMEMNEQQE

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FIGURE 4938

GGAGCCGCGCCGCATCTCAGGCGCAGTCTCTAGGGGCTGTGCGCATCCGTGGGGGGGACATGCGCATCTCAGGGG
GGCTGCTCGCATCTGGGGGTGCTGTGTGCACTCTCGGGGGGGCTGTGCCCATCTAGCGGGGTGGCTGTGCGCATCT
GGAGGGGGCTGTGCGCAACCCGGGGGGGGTGTGCGCGCATCTAGCAGGGGCGGCTGTGCGCATTTCGGGGGGGG
CTGTGCATATCTGGGGGGACCGTGCTTATCTCCGGGGGGCGGCTGTGCGCATCTGAGGGGTGTGTACATCTCGGG
GGGCCTGTGCGCATCTTGGGGGGCTGTGTGCACTCCGCGGGGGCTGTGCGCATCTCGGGGTGTGTGCGCTGCTCC
TCTGAGCTGTGCTCTTTCTGACGCTTTGCCTCAGCATGGAGGGCGGGGCCGCGCAGCCACCCCCACAGCACT
GCCTTACTACGTGGCCTTCTCCCAGCTGCTGGGCCTGACCTTGGTGGCCATGACCGGCGCGTGGCTCGGGCTGTA
CCGAGGCGGCATTGCCTGGGAGAGCGACCTGCAGTTCAACGCGCACCCCTCTGCATGGTCATAGGCCTGATCTT
CCTGCAGGGAAATGCCCTGCTGGTTTACCCTGTCTTCAGGAACGAAGCTAAACGCACCACCAAGGTCCTGCACGG
GCTGCTGCACATCTTTGCGCTCGTCATCGCCCTGGTTGGCTTGGTGGCGGTGTTCCACTACCACAGGAAGAAGGG
CTACGCTGACCTGTACAGCCTACACAGCTGGTGGGGATCCTTGTCTTTGTCTGTACTTTGTGCACTGGCTGGT
GGGCTTACGCTTCTTCTGTTCCCGGAGCTTCACTTCTCCCTGCGGAGCCGCTACCGCCACAGCACATCTTCTT
TGGTGTCTACCATCTTCTCTCTTCCGTGGGCACCGCCCTGCTGGGCCTGAAGGAGGCACTGCTGTCAACCTCGG
GGGCAAGTATAGCGCATTTGAGCCCGAGGGTGTCTGGCCAACGTGCTGGGCCTGCTGCTGGCCTGCTTCGGTGG
GGCGGTGCTCTACATCTTGACCCGGGCGGACTGGAAGCGGCCTTCCCAGGCGGAAGAGCAGGCCCTTCCATGGA
CTTCAAGACGCTGACGGAGGGAGATAGCCCCGGCTCCCAGTATGCGCCCGGCCGCGCCCTGGGGGTTCGCGGGGT
GTCTTCTTGCCTGCCCCCTGCTGAGGCGTCTTCAGGACTGCAGGCTCCGGAGAGTGGCTCTGGCAGCAGCGGGCG
CGTGGGTGCACTGTCATCTGTTTGAAGTGTCTTCTGGGGTCAGGTCTCCGCTCCTCTGCTTCTCTCTTCTCC
GCTGCTATAGACCAGTTTATTGTGTGTGGCTCCCGTGTCTCTGTGCCCCCTTCAGTGCAGAAGGCTTTGGGTAG
GACTTCGGGTGTTCCGTCTGGTTCGAGAGCACAGATCTTTAAAGAAGCGAGAGAGGAGGCCCCACCTCCTGGC
AGCAGATGCCCTGGGGCAAGGCCAGGGGAACTGGGGGGCCTCAGGGACAGGCCTGGAAGGCCACGATGGCTGC
TGAATTCAAACAAGGAGTCCCTCCAGCCTGAATAACACGTGGCACAATGGGCCCGGCCTTTGGCAGAGGAGCAA
GTGATATGATGTGTAAAGTATGTTGGTGGTGAAGCAAGGTTCCCCAGGAGAGGGGAGGGACTGGCCCCCTGGGAA
GCTCTGAGATGAGGCTGTGGCCAGCTGTAGTCTGACCTTCTCTTTAACCCTTTAGCCCTAGGATGGCTT
TGGTGGGAGAGGGGATAGAAGCCCATGACTTCAGACAGACTTTCTCTTGGCAGATGCAGGCGGGCCTCCTCCCAG
GCTGCTCCAGACATGGGGGTGGGGATGGGGGGACCTTGAGCCCTTCTGCTGGGGCTCCCTCCTGTAGCA
CCCCCTTGGCGCTCAGCTCTGTTTCTCTCCAGGCTCAGCCAGGCTCTGCTCAGGCTGGGAGGCAGAGGGCA
CAAACCTTATAATTTTTTAAATGAAAAACCGTGTCTGCTGGCTGTGGCTAGAGCCCCCTGGGGCTGCTGGAGCTG
CTGCTCTGTCTGGAGGACGAGCCTTCTCCTTATCTGCTGCCCATCTTTCCAGGAAGTCAGGATGGAGTCAGAA
CAACTACAGTCATCCCCCGTGGTGTCTGCACATCACTCCAGCCCCATAAAGAGTGTATGTTAGCTGAGTCACCA
TTTGGCTTGGCCTGGAAATAGTGTGATTAGAACTGATCGTGTGCGAGGCCAGGAGATCAAGACCATCCTGAC
TAACAAACACAGTGAAACCCGCTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGTGGGCGCCTGTAG
TCCAGCTACTTGGGAG

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FIGURE 4939

AGTATGTGTGGTTGGGGAATTCATGTGGAGGTCAGAGTGGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACAT
GGCTGCCAAAGTGTTTGTAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTGAACTCTGC
CTTATATAATGTGGATGCTGGGCACAGAGCTGTCATCTTTGACCGATTCCGTGGAGTGACAGGACATTGTGGTAGG
GGAAGGGACTCATTTTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
GCCAGTCATCACTGGTAGCAAAGATTTACAGAAATGTCAACATCACACTGCGCATCCTCTTCCGGCCTGTCGCCAG
CCAGCTTCCCTCGCATCTTCACCAGCATCGGAGAGGACTATGATGAGCGTGTGCTGCCGTCCATCACAACTGAGAT
CCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAATAATCACCAGAGAGAGCTGGTCTCCAGGCAGGTGAG
CGACGACCTTACAGAGCGAGCCGCCACCTTTGGGCTCATCCTGGATGACGTGTCCTTGACACATCTGACCTTCGG
GAAGGAGTTCACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGCCAGATTTGTGGTGGA
AAAGGCTGAGCAACAGAAAAGGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAA
CTCACTGGCCACTGCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCT
CTCAGCTCTCGGAACATCACCTACCTGCCAGCGGGGCAGTCCGTGCTCCTCCAGCTGCCCCAGTGAGGGCCCCAC
CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTTCTTCTGCTCCACCC
CCAGAAATCACTGTGAAATTTTCATGATTGGCTTAAAGTGAAGGAAATAAAGGTAAATCACTTCAGATCTCTAAT
TAGTCTATCAAATGAACTCTTTCATTCTTCTCACATCCATCTACTTTTTTATCCACCTCCCTACCAAAAATTGC
CAAGTGCCTATGCAAACCAGCTTTAGGTCCCAATTCGGGGCCTGCTGGAGTTCGGGCCTGGGCACCAGCATTTGG
CAGCACGCAGGCGGGGCAGTATGTGATGGACTGGGGAGCACAGGTGTCTGCCTAGATCCACGTGTGGCCTCCGTC
CTGTCACTGATGGAAGGTTTGCGGATGAGGGCATGTGCGGCTGAAGTGAAGGCAGGCCTCCGTCTTCCCAGCG
GTTCTGTGCAGATGCTGCTGAAGAGAGGTGCCGGGGAGGGGCAGAGAGGAAGTGGTCTGTCTGTTACCATAAGT
CTGATTCTCTTAACTGTGTGACCAGCGGAAACAGGTGTGTGTGAAGTGGGCACAGATTGAAGAATCTGCCCCTG
TTGAGGTGGGTGGGCTGACTGTTGCCCCCAGGGTCTTAAACTTGGATGGACTTGTATAGTGAGAGAGGAGGC
CTGGACCGAGATGTGAGTCTGTGAAGACTTCTCTTACCCCCACCTTGGTCCCTCTCAGATACCCAGTGGA
ATTCCAACCTGAAGGATTGCATCCTGCTGGGGCTGAACATGCCTGCCAAAGACGTGTCCGACCTACGTTCTGGC
CCCCCTCGTTCAGAGACTGCCCTTCTCACGGGCTCTATGCCTGCACTGGGAAGGAAACAAATGTGTATAAACTGCT
GTCAATAAATGACACCCAGACCTTCC

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FIGURE 4940

MAAKVFESIGKFGLALAVAGGVVNSALYNVDAGHRAVIFDRFRGVQDIVVGEGTHFLIPWVQKPIIFDCRSRPRN
VPVITGSKDLQNVNITLRILFRPVASQLPRIFTSIGEDYDERVLPSITTEILKSVMVARFDAGELITQRELVSQV
SDDLTERAATFGLILDDVSLTHLTFGKEFTEAVEAKQVAQQEAERARFVVEKAEQQKAAIISAEGDSKAAELIA
NSLATAGDGLIELRKLEAAEDIAYQLSRSRNITYLPAGQSVLLQLPQ

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FIGURE 4941

AGATCGATCTAAGATGGCGACCGTCGAACCGGAAACCACCCCTACTCCTAATCCCCGACTACAGAAAAGGAGAA
AACGGAATCTAATCAGGAGGTTGCTAACCCAGAACACTATATTAACATCCCCTACAGAACAGATGGGCACTCTG
GTTTTTTAAAAATGATAAAGCAAACTTGGCAAGCAAACCTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGA
CTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTTAAGGA
TGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCA
GAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTTGATGACTACAG
TGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGA
AAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGG
TTATCAGTCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAAAATAGGTTTGTGTTTAAGAAGACAC
CTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGC
AGAGTGGACTGCATTTAAATTTGATTTCCATCTAAATGTTACTCAGATATAAGAGAAGTCTCATTGCGCTTTGTC
TTGTACTTCTGTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTAGAGTTTACACTATCCCAATCAAAGAA
TTACAGTACACATCTCCAGAATCCATAAATGTGTTTCTGGCCCACTCTGTAATAGTTTCACTAGTAATTACCATTAA
TTACATACAGATTTTACCTATCCACAATAGTCAGAAAACAACCTGGCATTCTTATACTTTACAGGAAAAAAAATT
CTGTTGTTCCATTTTATGCAGAAGCATATTTTGCTGGTTTGAAAGATTATGATGCATACAGTTTCTAGCAATTT
TCTTTGTTCTTTTTTACAGCATTGTCTTTGCTGTACTCTTGCTGATGGCTGCTAGATTTTAAATTTATTTGTTTCC
CTACTTGATAATATTAGTGATTCTGATTTTCAGTTTTTCATTTGTTTTGCTTTTGTTTTTTCTCATGTAACATT
GGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTTGTGCATTCTTTGGTAATTTTTTTTGT
TTTTTGTAACIACAAAGCTTTGCTACAAATTTATGCATTTTCATTCAAATCAGTGATCTATGTTTGTGTGATTTCC
TAAACATAATTGTGGATTATAAAAAATGTAACATCATAATTACATTCCTAACTAGAATTAGTATGTCTGTTTTTG
TATCTTTATGCTGTATTTTAACTTTGTATTACTTAGGTTATTTTGCTTTGGTTAAAAATGGCTCAAGTAGAAA
AGCAGTCCCATTCTATTTAAACAGTGTAACAACTGTAAATAAAATGTGTACAGTGAATTGTCTTT

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FIGURE 4942

AGATCGATCTAAGATGGCGACCGTCGAACAGATGGGCACTCTGGTTTTTTAAAAATGATAAAAGCAAACCTTGGC
AAGCAAACCTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGT
CTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAA
ACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAG
AGACACTTCTGTGCCTTATTGGAGAATCTTTGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTA
GAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGG
TATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGGTTATCAGTCCCACGCAGACACAGCTACTAAGA
GCGGCTCCACCACTAAAAATAGGTTTGTGTTTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAA
GCAATCGAGATTTGGGAGCTGAACCAAGCCTCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTTCCATC
TAAATGTTACTCAGATATAAGAGAAG

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FIGURE 4943A

GCCGAGCACC GCGCACC GCGTCATGGGGGCCGCTCGGGGCCGCGGGGGCGGGGGCTGCTGCTGCCGCTGCCGCT
GCTGTTGCTGCTXGCCGCCGAGCCCGCCCTGGCGTTGXGXACCCCGGGCTGCAGCCCXGAACTTTTCTXGCTG
ACGAGGCCGGGGCGCAGCTCTTCGCGCAGAGCTACAACCTCCAGCGCCGAACAGGTGCTGTTCCXAGAGCGTGGCC
GCCAGCTGGGCGCAGCACCAACATCACC GCGGAGAATGXXXXXXXGAGGAAGCAGCCCTGCTCAGCCAG
GAGTTXGCGXGAGGCCTXGGGGCAGXAAGGCCAAXGGAGCTGTATGAACCGATCTGGCAGAACTTCACGGXACC
XCGCAXGCTGCGCAGGATCATCGGAGCTGTGCGCACCCTGGGCTCTGCCAACXCTGCCCTGGCTAAGCGGCAGC
AGTACAACGCCCTGCTAAGCAACATGAGCAGGATCTACTCCACCGCCAAGGTCTGCCCTCCCCAACAAGACTGCCA
CCTGCTGGTCCCTGGACCCAGATCTCACC AACATCCTGGCTTCTCTCGGAACCTACGXCCATGCTCCTGTTTGCT
GGGAGGGCTGGCACAATGCTGCGGGCATCCCGCTGAAACCGCTGTACGAGGATTTCACTGCCCTCAGCAATGAAG
CCTACAAGCAGGACGGCTTCACAGACACGGGGGCCCTACTGGCGCTCCTGGTACAAC TCCCCACCTTCGAGGACG
ATCTGGAACACCTCTACCAACAGCTAGAGCCCTCTACCTGAACCTCCATGCCTTCGTCCGCCGCGCACTGCATC
GCCGATACGGAGACAGATACATCAACCTCAGGGGACCCATCCCTGCTCATCTGCTGGGAGACATGTGGGCCCAGA
GCTGGGAAAACATCTACGACATGGTGGTGCCTTTCCAGACAAGCCCAACCTCGATGTCACCAGTACTATGCTGC
AGCAGGGCTGGAACGCCACGCACATGTTCCGGGTGGCAGAGGAGTTCTTCACCTCCCTGGAGCTCTCCCCATGC
CTCCCGAGTTCTGGAAGGGTCGATGCTGGAGAAGCCGGCCGACGGGCGGGAAGTGGTGTGCCACGCCTCGGCTT
GGGACTTCTACAACAGGAAAGACTTCAGGATCAAGCAGTGCACACGGGTACGATGGACCAGCTCTCCACAGTGC
ACCATGAGATGGGCCATATACAGTACTACCTGCAGTACAAGGATCTGCCCGTCTCCCTGCGTCTGGGGGGCCAAAC
CCGGCTTCCATGAGGCCATTGGGGACGTGCTGGCGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAAATCGGCC
TGCTGGACCGTGTACCAATGACACGGAAGTGACATCAATTACTTGCTAAAAATGGCACTGGAAAAAATGCTT
TCTGCCCTTTGGCTACTTGGTGGACCACTGGCGCTGGGGGGTCTTTAGTGGGCGTACCCCCCTTCCCGCTACA
ACTTCGACTGGTGGTATCTTCGAACCAAGTATCAGGGGATCTGTCTCCTGTTACCCGAAACGAAACCCACTTTG
ATGCTGGAGCTAAGTTTCATGTTCAAATGTGACACCATACATCAGGTACTTTGTGAGTTTGTCTGCAGTTCC
AGTTCCATGAAGCCCTGTGCAAGGAGGCAGGCTATGAGGGCCCACTGCACCAGTGTGACATCTACCGGTCCACCA
AGGCAGGGGCCAAGCTCCGGAAGGTGCTGCAGGTGGCTCCTCCAGGCCCTGGCAGGAGGTGCTGAAGGACATGG
TCGGCTTAGATGCCCTGGATGCCAGCCGCTGCTCAAGTACTTCCAGCCAGTACCCAGTGGCTGCAGGAGCAGA
ACCAGCAGAACGGCGAGGTCTGGGCTGGCCCGAGTACCAGTGGCACCCGCGTTCCTGACAAC TACCCGGAGG
GCATAGACCTGGTGACTGATGAGGCTGAGGCCAGCAAGTTTGTGGAGGAATATGACCGGACATCCAGGTGGTGT
GGAACGAGTATGCCGAGGCCAAGTGAAGTACCAACCAACATCACCACAGAGACCAGCAAGATTCTGCTGCAGA
AGAACATGCAAAATAGCCAACCACACCTGAAGTACGGCACCCAGGCCAGGAAGTTTGATGTGAACAGTTGCAGA
ACACCACTATCAAGCGGATCATAAAGAAGGTTACAGACCTAGAACGGGCAGCACTGCCTGCCAGGAGCTGGAGG
AGTACAACAAGATCCTGTTGGATATGGAACCACTACAGCGTGGCCACTGTGTGCCACCCGAATGGCAGCTGCC
TGCAGCTCGAGCCAGATCTGACGAATGTGATGGCCACGTCCCGGAAATATGAAGACCTGTTATGGGCATGGGAGG
GCTGGCGAGACAAGGCGGGGAGAGCCATCCTCCAGTTTTACCCGAAATACGTGGAACCTCATCAACCAGGCTGCCC
GGCTCAATGGCTATGTAGATGCAGGGGACTCGTGGAGGTCTATGTACGAGACACCATCCCTGGAGCAAGACCTGG
AGCGGCTCTTCCAGGAGCTGCAGCCACTCTACCTCAACCTGCATGCCCTACGTGCGCCGGGGCCCTGCACCGTCACT
ACGGGGCCCAAGCACATCAACCTGGAGGGGGCCATTCTGCTCACCTGCTGGGGAACATGTGGGCGCAGACCTGGT
CCAACATCTATGACTTGGTGGTGCCCTTCCCTTCAGCCCCCTCGATGGACACCACAGAGGCTATGCTAAAGCAGG
GCTGGACGCXCCAGGAGGATGTTAAGGAGGCTGATGATTTCTTACCTXCCCTGGGGCTGCTGCCCGTGCCTCC
TGAGTTCTGGAACAAGTCGATGCTGGAGAAGCCAACCGACGGGCGGGAGGTGGTCTGCCACGCCTCGGCCTGGGA
CTTCTACAACGGCAAGGACTTCCGGATCAAGCAGTGCACCACCGTGAACCTTGGAGGACCTGGTAGTGGCCACCA
CGAAATGGGCCACATCCAGTATTTTCATGCAGTACAAAGACTTACCTGTGGCCTTGGGGAGGGTGCCAAACCCCGG
CTTCCATGAGGCCATTGGGGACGTGCTAGCCCTCTCAGTGTCTACGCCCAAGCACCTGCACAGTCTCAACCTGCT
GAGCAGTGAGGGTGGCAGCGACGAGCATGACATCAACTTTCTGATGAAGATGGCCCTTGACAAGATCGCCTTTAT
CCCCTTCACTACCTCGTGCATCAGTGGCGCTGGAGGGTATTTGATGGAAGCATCACCAGGAGAACTATAACCA
GGAGTGGTGGAGCCTCAGGCTGAAGTACCAGGGCCTCTGCCCCCAGTGGCCAGGACTCAAGGTGACTTTGACCC
AGGGGCCAAGTTCCACATTCTTCTAGCGTGCCTTACATCAGGTACTTTGTGAGCTTCATCATCAGTTCCAGTT
CCACGAGGCACTGTGCCAGGCAGCTGGCCACACGGGGCCCCCTGCACAAGTGTGACATCTACCAGTCCAAGGAGGC
CGGGCAGCGCCTGGCGACCGCATGAAGCTGGGCTTCAGXTAGGCCGTGGCCGGAXAGCCATGCAGCTGATCACG

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FIGURE 4943B

XXGGCCAGCCCXAACATGAGCGCCTCGGCCATGTTGAGCTACTTCAAGCCGCTGCTGGAXCTGGCTCCGCACGGA
GAACGAGCTGCATGGGGAGAAGCTGGGCTGGCCGCAGTACAACCTGGACGXCCGAACCTCCGCTCGCTCAGAAGGGC
CCCTCCCAGACAGCGGCCGCGTCAGCTTXXCCTGGGCCTGGACCTGGATGCGCAGGAGGCCCCGCGTGGGCXCAGXT
GGCTGCTGCTCTTCTGGGCATCGCCCTGXCTGGTAGCCACCCTGGGCCTCAGCCAGCGGCTXCTTXXCAGCATCC
GCCACCGCAGCCTCCACCGGCACTCCACGGGCCCCAGTTCGGCTCCGAGGTGGAGCTGAGACACTCCTGAGGTG
ACCCGGCTGGGTCGGCCCTGCCCAAGGGCCTCCACCCAGAGACTGGGATGGGAACACTGGTGGGCAGCTGAGG

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FIGURE 4944

TGACCCAGGACTCTTTGTTTATTGCTGTGATTTTCTTCCACAGCTATAGAACTGGTCCAGACAAATTCAGAATA
TGATCCTTCTCGGTGTTTTGCCTTTGTTTCACGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAG
TCTTGATATTATCATTCTCATATTTGTTCTTTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCT
GAGCAGGCTTCTGAAACCTGGCGGGATGATGCTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTT
TAAAAAAGGTCAGTGCTCTATCTGGAATTTCTACGTGAGAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGA
GGAACCTGGACACGCTTTTCACCACTGCTGGACTGGAAAAAGTTCAGAACCTGGTGGATCGCCGACTGCAGGTGAA
CCGAGGAAAGCAACTGACAATGTACCGGGTTTGGATTGAGTGCAAACTACTGCAAGCCCCTTCTGTCCAGCACCAG
CTGAGAGGCACCTGCTGCCAACACGATGCAAGCCCATTTGTGTTTCCGGGCTTTTTTAAAAAAAATTGTAGCAC
TGGGCGTGGTGCATGCCTGTAATCCAGCCACTCAGGAGGCTGAGGCGGGGAGGATCCATTGAGCCCAGCAGTCC
AACCTGGGCAAAATAGTGAGAGACCCTGTATCTGAAAGTAATAATAAAAAATAAAAAATATAAATGAGGTCTCGTT
GATGTTGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAA
TTATGCTTCATATTTGTGAAGTCCTTTAAACATAATTTTCTCAAGTTCTTTCTTTGAGATCTCAATCTGTCTTA
GCATTTTGTAACTAATAACTGAAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGA
AAAAGTGTTACATATGACAAGTGTTTTTTGACTGTAATTGCGTTAAATCTTTTGAGAAATGTAATGCCGGGCTAG
GCAATTGCAGTTAATACATACAGAGGTTAGTGAAGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCA
GATCAGATATTTTCCTGAC

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FIGURE 4945

AGGTTGAGCTTGTGGTTTAGATGAGGAGAGTTGAGAGTTTATTTGCAGAAACACCTTTGACCACCCATACCCCA
CCACAAAGCTCATGTGGATCCCTGACACAAAAGGCGTCTATCCAGACCTACTGGCAACAAGCGGTGACTATCTCC
GTGTGTGGAGGGTTGGTGAAACAGAGACCAGGCTGGAGTGTGCTAAACAATAATAAGAACTCTGATTTCTGTG
CTCCCTTGACCTCCTTTGACTGGAATGAGGTGGATCCTTATCTTTTAGGTACCTCAAGCATTGATACGACATGCA
CCATCTGGGGGCTGGAGACAGGGCAGGTGTTAGGGCGAGTGAATCTCGTGTCTGGCCACGTGAAGACCCAGCTGA
TCGCCCATGACAAAGAGGTCTATGATATTGCATTTAGCCGGGCCGGGGGTGGCAGGGACATGTTGCCTCTGTGG
GTGCTGATGGCTCGGTGCGGATGTTTGACCTCCGCCATCTAGAACACAGCACCATCATTACGAAGACCCACAGC
ATCACCCACTGCTTCGCCTCTGCTGGAACAAGCAGGACCCTAACTACCTGGCCACCATGGCCATGGATGGAATGG
AGGTGGTGATTCTAGATGTCCGGGTTCCCTGCACACCTGTCGCCAGGTTAAACAACCATCGAGCATGTGTCAATG
GCATTGCTTGGGCCCCACATTCATCCTGCCACATCTGCACTGCAGCGGATGACCACCAGGCTCTCATCTGGGACA
TCCAGCAAATGCCCCGAGCCATTGAGGACCCTATCCTGGCCTACACAGCTGAAGGAGAGATCAACAATGTGCAGT
GGGCATCAACTCAGCCCGACTGGATCGCCATCTGCTACAACAACCTGCCTGGAGATACTCAGAGTGTAGTGTGGT
GGCGCTGTGCCACGAGGCAGGGGCTTTGTATTTCCTGCCTCTGCCCCACCCCAAAGTAAGAAGAAACATGTT
TCCAGTGGCCAGTATGTCTTTCATTGCTTTGCACCCACTGTTACCAGAAGCTGCTCTAGGAGTTCTGGCCAGTC
ACCCCATCGCCCTCTGTGGCAGACTCAGTGTGTGTGGCGCCTCCTCAGCCAGGGCTGAGTTTTAAGATTTCT
CTCCTTTCCTCTTCCTTTGGTTCCTCAATTAA

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FIGURE 4946

ATGAGTGGCTCCTTCGATCGCAAGCTCAGCAGCATCCTCACCGACATCTCCAGCTCCCTTAGCTGCCATGCGGGC
TCCAAGGACTCGCCTACCCTGCCCCGAGTCTTCTGTCACTGACCTGGGCTACTACAGCGCTCCCCAGCACGATTAC
TACTCGGGCCAGCCCTATGGCCAGACGGTGAACCCCTACACCTACCACCACCAATTCAATCTCAATGGGCTTGCA
GGCACGGGCGCTTACTCGCCCAAGTCGGAATATACCTACGGAGCCTCCTACCGGCAATACGGGGCGTATCGGGAG
CAGCCGCTGCCAGCCCAGGACCCAGTGTCTGGTGAAGGAGGAGCCGGAAGCAGAGGTGCGCATGGTGAATGGGAAG
CCCAAGAAGGTCCGAAAGCCGCGTACAATCTACTCCAGCTACCAGCTGGCCGCCCTGCAGCGCCGCTTCCAGAAG
GCCCAGTACCTGGCGCTGCCCAGCGCGCCGAGCTGGCCGCGCAGCTGGGCCTCACGCAGACACAGGTGAAAATC
TGGTTCCAGAACCGCCGTTCCAAGTTCAAGAACTCTACAAGAACGGGGAGGTGCCGCTGGAGCACAGTCCCAAT
AACAGTGATTCCATGGCCTGCAACTCACCACCATCACCCGCCCTCTGGGACACCTCTTCCCACTCCACTCCGGCC
CCTGCCCCAGTCAGCTGCCCCGCGCTCCCATACAGTGCCCTCCCCCAGCTACCTGGACGACCCACCAACTCC
TGGTATCACGCACAGAACCTGAGTGGACCCCACTTACAGCAGCAGCCGCTCAGCCAGCCACCCTGCACCATGCC
TCTCCCGGGCCCCCGCCCAACCCTGGGGCTGTGTACTTGA

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FIGURE 4947

MSGSFDRKLSSILTDISSSLSCHAGSKDSPTLPRESSVTDLGYYSAPQHDIYSGQPYGQTVNPTYHHQFNLNGLA
GTGAYSPKSEYTYGASYRQYGAYREQPLPAQDPVSVKEEPEAEVRMVNGKPKKVRKPRTIYSSYQLAALQRRFQK
AQYLALPERAELAAQLGLTQTQVKIWFQNRRSKFKKLYKNGEVPLEHSPNNSDSMACNSPPSPALWDTSSHSTPA
PARSQLPPPLPYASPSYLDPTNSWYHAQNLSGPHLQQQPPQPATLHHASPGPPPNPGAVY

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FIGURE 4948

CCCGTCACCAAGCTGGGCCGCTTGGTCAAGGAAATGAAGATCAAATCCCTGGAGGAGATCTATCCCTTCTCCCTG
CCCATTAAAGGTATCTGAGATCATTGACTTTTTCTGGGGGCTCTCTTAAGGACGAGGTTTGAAGATTATGTCG
GTGCAGAAGCAGACCCGCTGCGGCTCTGTGCTGGTGGCGCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCC
GCACCTGTGCCCCAAGAAGCTGCTCATGATAGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCC
ACCCTGGGCAACTTCGCCAAGGCCACCTTTGACGCCATCTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGG
AAGGAGACTGTATTTACCAAGTCTCCCTGTCAGGAATTCACTGACCACCTCGTCAAGACCCACACCAGAGTCTTC
GTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGC

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FIGURE 4949

MKIKSLEEIYPFSLPIKVSEIIDFFLGASLKDEVLKIMSVQKQTRCGSVLVRLIPAPRGTGIVSAPVPPKLLMIA
GIDDCYTSARGCTATLGNFAKATFDAISKTYSLTPDLWKETVFTKSPCQEFIDHLVKTHTRVFVQQTQAPAVAT
T

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FIGURE 4950

AGACCCCTTTTACAAAGATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCTCCTAAAGCCGAAGCCAAAGCGAA
GGCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCAC
CTCCGGCAGCCGAAGACACTGCGACTCTGGAGACAGCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAA
GCTTGACCACTATGCTATCATCAAGTTCCGCTGACCACTGAGTCTGCCATGAAGAAGACAGAAGACAACAACAC
ACTTGTTTCCTTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTTGGCCTGATGGAGAGAAGAAGGCATATGTTCGACTGGCTCCTGGTTACGA
TGCTTTGGATGTTGCCAACAATAATGGGATCATCTAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATA
TATATATATATATATATATATCTTTTCACCAT

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FIGURE 4951

GCAACCGCAGCCCAGCCCCAGTCCGGGAGGAAGTTCTGCCGGGCGCTCTCCGCCGGTGCCCTACTGGTTATAGTG
CTATACAGGAAACCTGGCAGCGCCGGAGCCGCGCGGTTCGAGGAGGGAGCGCGGGACGCCGAGCCCACGCGCGCCT
GCCGGGACAAGTGGAGACGAGGCCGGCGAGCGGACGCCCCGAGGTTTGGCGAAGGAGCTGTGGCCGGGTCCCTT
CTTATCCAGCCCAGACACTGCGCTCCGGTGGGCGTCCCTGCGCTGGGAATCCCTCTCGGAGTTTTTCAGGCC
GGCCGGGTGTCTCCGGGAAAGGCCCTGTTGGGGGAGGTGGGCCCGGAGCTGGCAGGTCTACAATCCGGTTGGAAG
GGCTCGCAGTGGGTGATTAGGGTGCCAATGACCTCCCCGCGAACGGGAACGCCGCACTAGACAACCAGCCCCA
GACCGGCATTCCCAGAGCCGAGGCGGGAGGGACGAGGGACTCCGGGACAGCAAATCCCCGGGGGAGAAGGGAA
GGGGGAAGCGGGACAGGGGAGGCCACCCTCCTTGGGCTCCGCTAGCGACCAGCCAGCGCCCCCTTCAGACGCAG
CCTTCCTGGCTCCGGACCCCGGCTTTCTGCTCCGGTCTCGTCCCAATGCCCCCAAGGTCCCCAGCAGAGGCAT
TCAGGTTCTCTCGCCCCGCCAGACGCAGCTTCTTTGGGTATGGGTGACAGCACTCCTGAGCGTCGCTGTCCC
TATTCGCTGCCGTTGCCAGCTCCGATTCCGCGAAACCTCTCCGGCACCACCTCGGAAGCCCCGCCAGGGCGATG
GTCCGGGCTTAACCTGCCGGCCCCGCCACC CGCCCTTGGGCTCCCTGAGGCCGCCCAGCAGACACCGGAGAG
CAATGGTGTGATCTCCGCACACTGCAACCTCTGCCTCCAGGGTTCAAGTGGTTCTCTGCCTCAGCCTCCCAAGC
AGATGGGACTACAGGTACTGTTAGTTAACTCTCAAGGAGAAATTCACGGTTGAGCACCGAAAAGAAAGTGGTCA
TGAAAGGAAGTATCAACAATTATCTTAAATTGGGTCAAGAAGGAAGTATCGCTCTACCACAATCAATACTCCA
CTAATTCAATTTGCTTTGAATAAGCACCAGCACAGAGAAGACCATGATAAGAGAAGGCATCTTGACATAAGTTCT
GTCTGACTCCAGCAGGAGAGTTCAAATGGAACGGTTCTGTCCATGGGTCCAAAGTTCTTACCATATCTACTCTGA
GACTGACTATCACCCAATTAGAAAACAACATCCCTTCATCCTTTCTTCATCCCAACCGGGCATCACATAGGGCAA
ACTGGATCAAGGCAGTTGATGTGTAGCAAACTCAGAGAATTTGCATTGGCTTAGCCATTTTGGAGTGTGCAG
TTAAACCAAGTTGTGATGTACCAATATGGCGAGAATCTTTAGGACATACCAGCTTTCTCCCTTTGTCTCATAACC
ATGTCCACCAATGAGAATGCTAATACACAAGCTGCCCATCTTCACAGATCTAAGAACAAGGGAAGGACAGTACA
GAAACGAGCGCTCACAGAATAGAGGTCAATGTGGAGCTGAGGAAAGCTAAGAAGGATGACCAGATGCTGAAGAGG
AGAAATGTAAGCTCATTTCCTGATGATGCTACTTCTCCGCTGCAGGAAAACCTGCAACAACCGGACTCCTGCCCT
AAGAGCCATAGGGAATATCGTCACTGGTACAGATGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGT
CTTTCCAGCCTGCTCACCAACCCCAAACTAACATTGAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGC
CAGCCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAGTCCCATTCCTTGTGACGGATCTCTTAAGAT
TTTGAGACACAAAAGGAAGCTGTATGGGCCGTGGAACAGTTGAACAGATTGTGTACCTTGTTCACTGTGGCATAA
TAGAACC GTTGATGAACCTTTACCTGCAAAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATA
TCTTTCAGGCTGCTGAGAACTAGGTGAACTGAGAACTTAGTATAATGATTGAAGAATGTGGAGGCGTAGACA
AAATTGAAGCTCTACAAAACCATGAAAATGAGTCTGTATATAAGGCTTCATTAAGCTTAACTGAGAAGTATTTCT
CTGTAGAGCTGCCAGAGCAGAGCTGAGCCACCCATTGCTGGAGAGGACATCCACGCAGGCCTGGACGAGCCGGAC
TGCCTTACTAAGGATTTCTCCGTATCTGACTGCAACTCAGCACTCAGCTGCATGCGGGACAGGAAGAGGAAGAT
CAAAACGTTGTGCCAGAACTACCTCTGAAGGCTACACTTTCCAAGTTCAGGATGGGGCTCCTGGGACCTTTAAC
TTTTAGATCATGTAGCTGAGGCATAAATTTGTGTGTACTATGTTTGGTAFTTTGTCTTATTGTTTCTCTACTAA
GAACTCTTTCTTAAATGTGGTTTGTATTGTAGCACTTTTTACTGAACTATACTTGAACAGTTCCAAGTGA
CATACTGTATGAAGCTTGTCTCTGACTAGGTTTCTAATTTCTATGTGGAATTTCTATCTTGCAGCATCTGTGA
AATAAACATTCAAGTCCACCCTTTTCTTGACTTC

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FIGURE 4952

MTSPRTGTPALDNQPQTGIPRAAGGRDAGTPGQQIPGGEGKGEGGTGEAHPPWAPLATSQRPFRRSLPGSGPRLS
APVLVPMPPKVP SRGIQVPPRPAQTQLLWVWVTALLSVAVPIRCRCQLRFRETSPAPPRKPRPGRWSGPNLPAPP
TRPLGSLRPAQQTPE SNGVISAHCNLC LQGSSGSPASASQADGTTGTGS

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FIGURE 4953

GCCAGTGAATTCGGGGGCTCAGCCCTCCTCCCTCCCTTCCCCCTGCTTCAGGCTGCTGAGCACTGAGCAGCGCTC
AGAATGGGAAGCCATCGCCAAATATGACTTCAAAGCTACTGCAGACGACGAGCTGAGCTTCAAAGGGGGGACATC
CTCAAGGTTTTGAACGAAGAATGTGATCAGAACTGGTACAAGGCAGAGCTTAATGGAAAAGACGGCTTCATTCCC
AAGAACTACATAGAAATGAAACCACATCCGTGGTTTTTTGGCAAAATCCCCAGAGCCAAGGCAGAAGAAATGCTT
AGCAAACAGCGGCACGATGGGGCCTTTCTTATCCGAGAGAGTGAGAGCGCTCCTGGGGACTTCTCCCTCTCTGTC
AAGTTTGGAACGATGTGCAGCACTTCAAGGTGCTCCGAGATGGAGCCGGGAAGTACTTCTCTGGGTGGTGAAG
TTCAATTCTTTGAATGAGCTGGTGGATTATCACAGATCTACATCTGTCTCCAGAAACCAGCAGATATTCTGCGG
GACATAGAACAGGTGCCACAGCAGCCGACATACGTCCAGGCCCTTTTGACTTTGATCCCCAGGAGGATGGAGAG
CTGGGCTTCCGCCGGGGAGATTTTATCCATGTCATGGATAACTCAGACCCCAACTGGTGGAAGGAGCTTGCCAC
GGGCAGACCGGCATGTTTCCCGCAATTATGTCACCCCCGTGAACCGGAACGTCTAAGAGTCAAGAAGCAATTAT
TTAAAGAAAGTGAAAAATGTAAAACACATACAAAAGAATTAAACCCACAAGCTGCCTCTGACAGCAGCCTGTGAG
GGAGTGCAGAACACCTGGCCGGGTCAACCCTGTGACCCTCTCACTTTGGTTGGAACTTTAGGGGTGGGAGGGGGC
GTTGGATTTAAAAATGCCAAACTTACCTATAAATTAAGAAGAGTTTTTATTACAAATTTTCACTGCTGCTCCTC
TTTCCCTCCTTTGTCTTTTTTTTCATCCTTTTTTCTCTTCTGTCCATCAGTGCATGACGTTTAAGGCCACGTAT
AGTCCTAGCTGACGCCAATAATAAAAAACAAGAAACCAAAAAAAAAAACCCGAATTCA

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FIGURE 4954

MEAIKYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDGFI PKNYIEMKPHWFFGKIPRAKAEMLS
KQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFKVLRDGAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD
IEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHGQTGMFPRNYVTPVNRNV

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FIGURE 4955

GGCACGAGGGCTCTGAGCGGGAGGCCTGAGCGGGAAGCATTGGCGTCCGAGCGACTTCTAGGAGCCTGGGGTTCG
GCGCTATGGAGGAGCTCGATGGCGAGCCAACAGTCACTTTGATTCCAGGCGTGAATTCCAAGAAGAACCAAATGT
ATTTTGACTGGGGTCCAGGGGAGATGCTGGTATGTGAAACCTCCTTCAACAAAAAGAAAAATCAGAGATGGTGC
CAAGTTGCCCTTTATCTATATCATCCGTAAGGATGTAGATGTTACTCTCAAATCTTGAGAAAACCTTTCAATG
AATCCCATGGAATCTTTCTGGGCCTCCAGAGAATTGACGAAGAGTTGACTGGAAAATCCAGAAAATCTCAATTGG
TTCGAGTGAGTAAAAACTACCGATCAGTCATCAGAGCATGTATGGAGGAAATGCACCAGGTTGCAATTGCTGCTA
AAGATCCAGCCAATGGCCGCCAGTTCAGCAGCCAGGTCTCCATTTGTGTCAGCAATGGAGCTCATCTGGAACCTGT
GTGAGATTCTTTTATTGAAGTGGCCCCAGCTGGCCCTCTCCTCCTCCATCTCCTTGACTGGGTCCGGCTCCATG
TGTGCGAGGTGGACAGTTTGTGCGCAGATGTTCTGGGCAGTGAGAATCCAAGCAAACATGACAGCTTCTGGAAC
TGGTGACCATCTTGGTGTGTCAGGGCCGGCTGGATGAGGCCGACAGATGCTCTCCAAGGAAGCCGATGCCAGCC
CCGCTCTGCAGGCATATGCCGAATCATGGGGGACCTGATGAGGACAATGCCATTCTTAGTCTGGGAACACCC
AGACACTGACAGAGCTGGAGCTGAAGTGGCAGCACTGGCACGAGGAATGTGAGCGGTACCTCCAGGACAGCACAT
TCGCCACCAGCCCTCACCTGGAGTCTCTCTTGAAGATTATGCTGGGAGACGAAGCTGCCTTGTAGAGCAGAAGG
AACTTCTGAGTAATTGGTATCATTTCCTAGTGACTCGGCTCTTGTACTCCAATCCCACAGTAAAACCCATTGATC
TGCACTACTATGCCAGTCCAGCCTGGACCTGTTTCTGGGAGGTGAGAGCAGCCCAGAACCCCTGGACAACATCT
TGTTGGCAGCCTTTGAGTTTGACATCCATCAAGTAATCAAAGAGTGCAGCATCGCCCTGAGCAACTGGTGGTTTG
TGGCCACCTGACAGACCTGCTGGACCACTGCAAGCTCCTCCAGTCAACAACCTCTATTTGGTTCCAACATGA
GAGAGTTCTCTGCTGGAGTACGCTCGGGACTGTTTGCTCATCCCAGCCTGTGGCAGCTGGGGTTCGATTACT
TTGATTACTGCCCCGAGCTGGGCCGAGTCTCCCTGGAGCTGCACATTGAGCGGATACCTCTGAACACCGAGCAGA
AAGCCCTGAAGGTGCTGCGGATCTGTGAGCAGCGGCAGATGACTGAACAAGTTCGCAGCATTGTGAAGATCTTAG
CCATGAAAGCCGTCCGCAACAATCGCCTGGGTCTGCCCTCTCTTGGAGCATCCGTGCTAAGGATGCCGCCCTTG
CCACGCTCGTGTGACAGAGTTCCTCAGGGATTACTGTGAGCGAGGCTGCTTTTCTGATTGGATCTCATTGACA
ACCTGGGGCCAGCCATGATGCTCAGTGACCGACTGACATTCTGGGAAAGTATCGCGAGTTCCACCGTATGTACG
GGGAGAAGCGTTTTGCGACGCAGCTTCTCTCCTTCTGTCTTGATGACGTCTCGGATTGCCCTCGGTCTTTCT
GGATGACTCTGCTGACAGATGCCTTGCCCCTTTTGGAACAGAAACAGGTGATTTTCTCAGCAGAACAGACTTATG
AGTTGATGCGGTGTCTGGAGGACTTGACGTCAAGAAGACCTGTGCATGGAGAATCTGATACCGAGCAGCTCCAGG
ATGATGACATAGAGACCACCAAGGTGGAATGCTGAGACTTTCTTGGCACGAAATCTTGCTCGGGCAATTATAA
GAGAAGGCTCACTGGAAGGTCTCTGAGAACTGCTTCAATGTGGTATCTTTGTATGGCAATGTATATAGATTTTTT
AAAAGAATAAATGTTGTTTTGCAAATGTAAAAA

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FIGURE 4956

MEELDGEPTVTLIPGVNSKKNQMYFDWGPGEMLVCETSFNKKEKSEMVPSCPFYIIRKDVVDVYSQILRKLFNES
HGIFLGLQRIDEELTGKSRKSQLVRVSKNYRSVIRACMEEMHQVAIAAKDPANGROFSSQVSILSAMELIWNLCE
ILFIEVAPAGPLLLHLLDWVRLHVCEVDSLSADVLGSENPSKHDSFWNLVTILVLQGRLEARQMLSKEADASPA
SAGICRIMGDLMRTPILSPGNTQTLTELELKWQHWHEECERYLQDSTFATSPHLESLLKIMLGDEAALLEQKEL
LSNWHFLVTRLLYSNPTVKPIDLHYAQSSLDLFLGGESSPEPLDNILLAAFEFDIHQVIKECSIALSNNWFVA
HLTDLLDHCKLLQSHNLYFGSNMREFLLLEYASGLFAHPSLWQLGVDYFDYCPGLGRVSLELHIERIPLNTEQKA
LKVLRIQEQRMTEQVRSICKILAMKAVRNNRLGSALSWSIRAKDAAFATLVSDRFLRDYCEGCFSDLDLIDNL
GPAMMLSDRLTFLGKYREFHRMYGEKRFADAASLLLSLMTSRIAPRSFWMTLTLDALPLLEQKQVIFSAEQTYEL
MRCLEDLTSRRPVHGESDTEQLQDDDIETTKVEMLRSLARNLARAIIREGSLEGS

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FIGURE 4957

GGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGC
TCGCCATGGCCGACGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGG
GGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTG
AACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTTGACGGGCAACCAATCAATGAAACAGACACACCTG
CACAGTTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGA
ACCTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACCTGCAATTTGGT
TCCACCACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCCATTCTTTATTGTAC
ATAAAGTAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTT
GATTGACATCAAGTGGAGACGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCA
TGCTCATTGAGCTCTTA

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FIGURE 4958

GCAGCGCGAGCTTCGGCCTCGGCTCTGTACCATGAAGAAGGGCCCCAGTGGCTATGGCTTCAACCTGCACAGCGA
CAAGTCCAAGCCAGGCCAGTTCATCCGGTCAGTGGACCCAGACTCCCCGGCTGAGGCTTCAGGGCTCCGGGCCCCA
GGATCGCATTGTGGAGGTGAACGGGGTCTGCATGGAGGGGAAGCAGCATGGGGACGTGGTGTCCGCCATCAGGGC
TGGCGGGGACGAGACCAAGCTGCTGGTGGTGGACAGGGAACTGACGAGTTCCTCAAGAAATGCAGAGTGATCCC
ATCTCAGGAGCACCTGAATGGTCCCCCTGCCTGTGCCCTTACCAATGGGGAGATACAGAAGGAGAACAGTCGTGA
AGCCCTGGCAGAGGCAGCCTTGGAGAGCCCCAGGCCAGCCCTGGTGAGATCCGCCTCCAGTGACACCAGCGAGGA
GCTGAATTCCCAAGACAGCCCCCAAACAGGACTCCACAGCGCCCTCGTCTACCTCCTCCTCCGACCCCATCCT
AGACTTCAACATCTCCCTGGCCATGGCCAAAGAGAGGGCCCCACCAGAAACGCAGCAGCAAACGGGCCCCGCAGAT
GGACTGGAGCAAGAAAAACGAACTCTTCAGCAACCTCTGAGCGCCCTGCTGCCACCCAGTGACTGGCAGGGCCGA
GCCAGCATTCCACCCACCTTTTTCTCTCTCCCAATTACTCCCTGAATCAATGTACAAATCAGCACCCACATC
CCCTTTCTTGACAAATGATTTTTCTAGAGAACTATGTTCTTCCCTGACTTTAGGGAAGGTGAATGTGTTCCTC
CTCCCGCAGTCAGAAAGGAGACTCTGCCTCCCTCCTCCTCACTGAGTGCCTCATCCTACCGGGTGTCCCTTTGCC
ACCCTGCCTGGGACATCGCTGGAACCTGCACCATGCCAGGATCATGGGACCAGGCGAGAGGGCACCTCCCTTCC
TCCCCATGTGATAAATGGGTCCAGGGCTGATCAAAGAACTCTGACTGCAGAACTGCCGCTCTCAGTGGACAGGG
CATCTGTTACCCCTGAGACCTGTGGCAGACACGTCTTGTTCATTGATTTTTGTTAAGAGTGCAGTATTGCAGA
GTCTAGAGGAATTTTTGTTTCCTTGATTAACATGATTTTCTGGTTGTTACATCCAGGGCATGGCAGTGGCCTCA
GCCTTAAACTTTTGTTCTACTCCACCTCAGCGAACTGGGCAGCACGGGGAGGGTTGGCTACCCCTGCCCAT
CCCTGAGCCAGGTACCACCATTGTAAGGAAACACTTTCAGAAATTCAGCTGGTTCCTCCAAACC

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FIGURE 4959

MSADAAAGAPLPRLCCLEKGPNGYGFLHGEKGKLGQYIRLVEPGSPA EKAGLLAGDRLVEVNGENVEKETHQQV
VSRIRAALNAVRLLVVDPETDEQLQKLG VQVREELLRAQEAPGQAEPPAAAEVQGAGNENEPREADKSHPEQREL
RPR LCTMKGPSGYGFNLHSDKSKPGQFIRSVD PDSPAEASGLRAQDRIVEVNGVCMEGKQHGDVVS AIRAGGDE
TKLLVVDRETDEFFKKCRVIP SQEHLNGPLPVPFTNGEIQKENSREALAEAALES PRPALVRSASSDTSEELNSQ
DSPPKQDSTAPSSTSSSDPILDFNISLAMAKERAHQKRSSKRAPQMDWSKKNELFSNL

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FIGURE 4960

CGCCCAGCAGCCCGTGGGCGAGGCGGGCGGAGCGAGCGGGGCCGGCGGGCGCCGAGGGACGCCGAGGCCTCG
GGCGGGGGCTGGCCCGGGTTCCAGGTCTCCAGTGGGGGCTGCAGACTAAGCAAAATGAGGCGGTTCTTGAGGCC
AGGGCATGACCCTGTGCGGGAGAGGCTCAAGCGGGACCTGTTCAGTTTAAACAAGACGGTGGAGCATGGCTTCCC
GCACCAGCCCAGCGCCCTCGGCTACAGCCCGTCCCTGCACATCCTGGCCATCGGCACCCGTTCTGGAGCCATCAA
GCTCTACGGAGCCCCAGGCGTGGAGTTCATGGGGCTGCACCAGGAGAACAACGCTGTGACGCAGATCCACCTCCT
GCCCCGCCAGTGGCAGCTGGTCACCCTGCTGGATGACAACAGCCTGCACCTTTGGAGCCTGAAGGTCAAGGGCGG
GGCATCGGAGCTGCAGGAGGATGAGAGCTTACACTGCGTGGACCCCCAGGGGCTGCCCCAGTGGCACACAGAT
CACCGTGGTCTGCCACATTCTCTGCGAGCTGCTCTACCTGGGCACCGAGAGTGGCAACGTGTTTGTGGTGCA
GCTGCCAGCTTTTCGTGCGCTGGAGGACCGGACCATCAGCTCGGACGCGGTGCTGCAGCGGTTGCCAGAGGAGGC
CCGCCACCGGCGTGTGTTGAGATGGTGGAGGCACTGCAGGAGCACCTCGAGACCCCAACCAGATCCTGATCGG
CTACAGCCGAGGCTCGTTGTCATCTGGGACCTACAGGGCAGCCGCGTCTCTACCACTTCTCAGCAGCCAGCA
ACTGGAGAACATCTGGTGGCAGCGGGACGGCCGCTGCTCGTCAGCTGTCACTCTGACGGCAGCTACTGCCAGTG
GCCCCGTGTCCAGCGAAGCCCAGCAACCAGAGCCCCCTCCGAGCCTCGTGCCTTACGGTCCCTTTCTTGCAAAGC
GATTACCAGAATCTCTGGCTGACCACTAGGCAGGGGTTGCCCTTACCATCTTCCAGGCTGGCATGCCACGGGC
CAGCTACGGGGACCGCCACTGCATCTCAGTGATCCACGATGGCCAGCAGACGGCCTTCGACTTCACTCCCGTGT
CATCGGCTTCACTGTCTCTACAGAGGCAGACCCTGCAGCCACCTTTGACGACCCCTATGCCCTGGTGGTGTCTGGC
TGAGGAGGAGCTGGTGGTGATTGACCTGCAGACAGCAGGCTGGCCACCGGTCCAGCTGCCCTACCTGGCTTCTCT
GCACTGTTCCGCCATCACCTGCTCTCACCAGCTCTCCAACATCCCGCTGAAGCTGTGGGAGCGGATCATTGCCGC
CGGCAGCCGGCAGAACGCACACTTCTCCACCATGGAGTGGCCAATTGATGGTGGCACCAGCCTGACCCAGCCCC
ACCCAGAGGGACCTGCTGCTCAGAGGCAGAGGACGGCAGGCTGCGGTTCTGGGATGCCTCGGGTGTCTGCCT
GCGGCTGCTCTACAACTCAGCACTGTGCGCGTGTTCCTCACCAGACGGACCCCAACGAGAACTTCAGTGCCCA
GGGCGAGGACGAGTGGCCCCACTCCGCAAGGTGGGCTCCTTTGACCCCTACAGTGATGACCCCGGCTGGGCAT
CCAGAAGATCTTCTCTGCAAGTACAGCGGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTACTGGA
ACTGAATGACGAGGCAGCGGAGCAGGCTGTGGAGCAGGTGGAGGCCGACCTGCTGCAGGACCAAGAGGGCTACCG
CTGGAAGGGGCACGAGCGCTGGCAGCCCGCTCAGGGCCCGTGCCTTTGAGCTGGCTTTACGCCCTTCGTGTT
GGTGCAGTGTGACCCCCGGCTGTGGTCACCTCCTTGGCCCTGCACTCTGAGTGGCGGCTCGTGGCCTTCGGCAC
CAGCCATGGCTTTGGCCTCTTTGACCACCAGCAGCGGCGGAGGTCTTTGTTAAGTGACACTGCACCCAGTGA
CCAGCTGGCCTTGGAGGGCCACTCTCCCGCTCAAGTCCCTCAAGAAGTCTTGCCTCAGTCATTCCGCCGGAT
GCGTGGAGCCGGGTGTCCAGCCGGAAGCGGCACCCGGCTGGCCCCCAGGAGAGGCACAGGAGGGGAGTGCCAA
GGCTGAGCGGCCAGGCCTCCAGAACATGGAGCTGGCGCCTGTGCAGCGCAAGATCGAGGCTCGCTCGGCAGAGGA
CTCCTTACAGGCTTCGTCCGGACCCCTGTACTTTGCTGACACCTACCTGAAGGACAGCTCCCGGCACTGCCCCTC
GCTGTGGGCTGGCACCAATGGGGGACCATCTATGCCTTCTCCCTGCGTGTGCTCCCGCCGAGCGGAGAATGGA
TGAGCCTGTGCGGGCAGAGCAGGCCAAGGAGATCCAGCTGATGCACCGGGCGCGGTTGGTGGGCATCCTGGTGT
CGACGGACACAGCGTACCCCTTCCCGAGCCCTCGAAGTGGCCATGATCTGTGCAAGAGCCCTGACATGCAGGG
AAGCCACCAGCTGCTCGTCTATCAGAGGAGCAGTTCAAGGTGTTACGCTGCCCAAGGTGAGTGCCAAGCTGAA
GTTGAAGCTGACGGCCCTGGAGGGCTCAAGAGTGCAGCGGGTACGCTGGCCCACTTCCGAGTGTGTCAGCCGA
GGACTACGGGGAGCACCACTGGCAGTCTTACCAACCTGGGCGACATCCAGGTGGTCTCGCTGCCCCCTGCTCAA
GCCCCAGGTGCGCTACAGTGCATCCGCCGGGAGGACGTGAGTGGCATCGCCTCCTGCGTCTTACCAAATATGG
CCAAGGCTTCTACCTGATCTCACCTCGGAGTTTGAAGCTTCTCTCTTCCACCAAGTGGTGGTGGAGCCCCG
GTGTCTGGTGGATTACAGCAGAAACCAAGAACACCGCCCTGGTAACGGTGCAGGGCCCCAAGAAGGCCCGAGCCG
AGCCAGGAACTCAGGGACTCAGAGTGATGGCGAGGAGAAGCAGCCCGGCTGGTGTGAGCGCGCTCTGCTCAG
TGATGAGAGAGCGGCAACTGGCGTTACATCGAGCCGCGTGGGGTGCAGCCTCAGCAATGGCGGAGCAGAGTGA
GTGGCTGAGCGTCCAGGCTGCGCGATGAGCACACACTACTGATGGCCTTTCGGGGTCCCTGCCCCAACCGG
AGAGGCCGGTGCACAGGGCCCCGCCAGGGGCTGGGGGATCCCGGCTTCCACAATGCAGCTGCTCTGGGCCTCGG
GAGAGGAGAGACCCAGTCCCCTGGGCTGCCCTTCCCGGCCCTCGTCTGTCTGGGTCTTTGGTCAATGTTGCAC
AGTTTTTATTGCTCCCATCCCTTTTTGTAGTGGGCTGGGTTTTAAGTTATAAATGTTAACTGCCTCTGGGTGAAA
AAGTTTTTAATAAACACCTATTACCTCTTG

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FIGURE 4961

MRRFLRPGHDPVRERLKRDLFQFNKTVEHGFPHQPSALGYSPSLHILAIGTRSGAIKLYGAPGVEFMGLHQENNA
VTQIHLLPGQCQLVTLLDDNSLHLWSLKVKGGAELQEDESFTLRGPPGAAPSATQITVVLPHSSCELLYLGTES
GNVFVVQLPAFRALEDRTISSDAVLQRLPEEARHRRVFEMVEALQEHPRDPNQILIGYSRGLVVIWDLQGSRLY
HFLSSQQLENIWWQRDGRLLVSDGSGYCQWPVSSEAQQEPLRSLVPYGPFPCKAITRILWLTTROGLPFTIF
QGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLTEADPAATFDDPYALVVLAEELVVIDLQTAGWPPVQ
LPYLASLHCSAITCSHHVSNIPKLWERIIAAGSRQNAHFSTMEWPIDGGTSLTPAPPQRDLLLLTGHDGTVRFW
DASGVCLRLLYKLSTVRVFLTDTPNENFSAQGEDEWPPLRKVGSFDPYSDDPRLGIQKIFLCKYSGYLAVAGTA
GQVIVLELNDEAAEQAVEQVEADLLQDQEGYRWKGHERLAARSGPVRFEFGFQPFVVLVQCQPPAVVTSALHSEW
RLVAFGTSHGFLFDHQRRQVFVKCTLHPSDQLALEGPLSRVKSLLKSLRQSFRMRRSRVSSRKRHPAGPPGE
AQEGSAKAERPGLQNMELAPVQRKIEARSAEDSFTGFVRTLYFADTYLKDSSRHCPSLWAGTNGGTIYAFSLRVP
PAERRMDEPVRAEQAKEIQLMHRAPVVGILVLDGHSVPLPEPLEVAHDLSKSPDMQGSQLLVVSEEQFKVFTLP
KVS AKLKLKLTALEGSRVRRVSVAHFGSRAEDYGEHHLAVLTNLGDIQVVSLLPKPQVRYSCIRREDVSGIAS
CVFTKYQGIFYLISPSEFERFSLSTKWLEPRCLVDSAETKNHRPENGAGPKKAPSRARNSGTQSDGEEKQPGLV
MERALLSDERAATGVHIEPPWGAASAMAEQSEWLSVQAAR

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FIGURE 4962A

GTGGGTTCTGCCTAAAGCTGAATTCCCAGCGCTTTGGCTTCTCTGAGTTGGGGTTGTGTATAGGGGTCTTCGAAC
AGTTCCGGAACCAGCCAGCAGCCTTTAATTCTTGGGCGGACCACGGCCGGTTCTGATATCTTAGGGTGAAGAGAG
GGAGGTGTCGGCCAGCCAAGAGAGAAAATTGCGGATCTTGGGCTCAGGAAGACGGGAGAAGGGGTTGGGGTCCC
GGGGTGGAAACGGTCGTCGTGGTTGCGCTTATAGAAGTAGGAGCAGAGGGTTCTCGTGGCAACCTTTTACTAC
CTTTGCCTTAACCTTTGGCCACTGTTCTTGGCTAAGATGAGCAGCCACCATAACCACCTTTCCCTTTGACCCTGAG
CGGCGAGTCCGGAGTACGCTGAAGAAGGTCTTTGGGTTTGA CTCTTTAAGACGCCCTTACAGGAGAGTGCGACC
ATGGCTGTAGTAAAAGGTAACAAGGACGTCTTTGTGTGCATGCCACAGGGGCAGGAAAATCCCTATGCTATCAG
CTCCCTGCTCTGTTGGCCAAAGGCATCACCATTGTAGTCTCTCTCTCATTGCTTTGATTACAGGACCAAGTGGAC
CACTTGCTAACCTTAAAGGTACGAGTAAGTTCCCTGAAGCTCTCTGCACAGGAAAGGAAGGAGCTGCTT
GCTGACCTGGAGCGAGAAAAGCCCCAGACCAAGATTCTGTACATCACCACAGAGATGGCAGCTTCATCTCCTTC
CAGCCCACCCTGAACTCCCTGGTGTCCCGCCACCTGCTGTCTTACTTGGTGGTGGATGAAGCTCATTGTGTTTCC
CAATGGGGGCATGACTTTCGTCCTGACTACTTGCCTCTGGGTGCCCTGCGCTCCCGCTGGGACATGCCCTTGT
GTGGCTCTGACCGCCACAGCCACCCACAGGTCCAAGAGGACGTGTTTGTGCTGCCCTGCACCTGAAGAAACAGTT
GCCATCTTCAAGACTCCCTGCTTCCGGGCCAACCTCTTCTATGATGTGCAATTCAAGGAAGTATTCTGATCCC
TATGGGAACCTGAAGGACTTCTGCCTTAAGGCTCTTGGACAGGAGGCTGATAAAGGTTATCTGGCTGCGGCATT
GTGTACTGCAGGACTAGAGAGGCTTGTGAACAGCTGGCCATAGAGCTCAGCTGCAGGGGTGTGAACGCCAAGGCT
TACCATGCAGGGCTGAAGGCTCTGAAAGAACGCTGGTGCAGAACGACTGGATGGAGGAGAAGTCCCTGTAATT
GTTGCAACCATTAGTTTTGGGATGGGAGTGGATAAAGCCAATGTCAGGTTTGTGCGCCATTGGAATATTGCCAAG
TCTATGGCTGGGTACTACCAGGAGTCTGGCCGGGCTGGCAGGGATGGGAAGCCTTCTGGTGGCTCTCTATTAC
TCCAGGAATGACCGGGACCAAGTCAGCTTCTGATCAGGAAGGAAGTAGCAAACTCCAGGAAAAGAGAGGAAAC
AAAGCATCTGATAAAGCCACTATCATGGCCTTTGATGCCCTGGTGACCTTCTGTGAAGAACTGGGGTGCCGCCAT
GCCGCCATTGCCAAGTACTTCGGGGATGCGCTGCCTGCCTGCGCCAAAGGCTGCGACCACTGCCAGAACCCACG
GCCGTGCGGAGGCGGCTGGAGGCCTTGGAGCGCAGCAGCAGCTGGAGCAAGACCTGCATCGGGCCCTCCAGGGG
AACGGCTTTGACCCCGAGCTGTATGAGGGAGCGCGCAAGGGCTACGGGGACTTCAGCAGGTATGACGAAGGTTCT
GGAGGCAGCGGGATGAAGGCAGAGATGAGGCCACAAGCGGGAGTGGAACCTTCTATCAGAAGCAGATGCAG
CTGCGCAAGGGCAAAGACCCCAAGATAGAAGATTTGTACCCCAAGATGAGAATGTCCCTGAAAGAGGCTTCT
AGCAGGAGGATCCCCAGGCTGACTGTGAAGGCAGGGAGCACTGCCTGCGGCTTCTGGAGGAGCGCTGAGCAGC
AACCGCCAGTCAACACGTACCGCTGATGAAGCTGACCTCCGGGCCAAGGCCGTGGAGCTGGAACATGAGACATT
CGGAACGCCAAGGTGGCCAACTCTACAAGGCCAGCGTGCTGAAGAAGGTGGCCGATATCCACAGAGCCTCCAAG
GATGGGCAGCCCTATGACATGGGAGGCAGTGCCAAGAGCTGCAGTGCCCAAGCTGAGCCCCCGGAGCCCAATGAG
TATGACATTCCACCAGCCTCCCATGTGTACTCGCTCAAACCCAAGCGGGTGGGAGCTGGTTTTCCCAAGGCTCC
TGCCCCGTTCCAGACGGCCACGGAAGTATGGAGACAACCTCGGATCAGGGAGCAAGCCCCCAGCCGAGCGGGGA
GGCGAGCACGAGCCCCGAGCCGGCCCTGTGGCTCCTGGATGAGGATGGGAGTGAGCCCCCTCCCTGGGCCCAGA
GGGGAGGTCCCTGGAGGCAGCGCTCACTATGGGGGGCCCTCCCTGAGAAGAAGGCCAAAAGTTCCCTCTGGGGGC
AGCTCCCTTGCCAAGGGCCGGGCTAGCAAGAAACAGCAGCTCCTAGCCACAGCGGCCACAAGGATTCTCAGAGC
ATCGCCCGCTTCTTCTGCCAAGGGTGGAAAGCCAGCTCTGTGGCATCAGCCCCAGAGGCAGAAGGTGCCTGC
CCCTCCTGTGAGGGGGTTTCAGGGACCCCCGATGGCCCCAGAGAAGTACACAGGGGAGGAAGATGGAGCCGGGGGA
CATTGCGCTGCCCCCTCCCCAGACTGAGGAGTGCCCTCAGGGAGAGGCCAAGCACCTGCCCGCCAGAGACCAGGGC
ACCCCTGAAGTCCAGCCCACCCCTGCAAAGGACACATGGAAGGGCAAGCGGCCCTCGATCCAGCAGGAGAACCCA
GAGAGCCAGCCTCAGAAGAGGCCACGCCCCCTCAGCCAAGCCCTCCGTCGTAGCTGAGGTCAAGGGCAGCGTCTCG
GCCAGCGAACAGGGCACCTTGAATCCCACGGCTCAAGACCCCTTCCAGCTCTCCGCTCCTGGCGTCTCCTTGAAG
GAGGCTGCAAAATGTTGTGGTCAAGTGCCCTACCCCTTTCTACAAGGAGGGCAAGTTTGCTTCCAAGGAGTTGTTT
AAAGGCTTTGCCCGCCACCTCTCACACTTGCTGACTCAGAAGACCTCTCCTGGAAGGAGCGTGAAAGAAGAGGCC
CAGAACCTCATCAGGCACTTCTTCCATGGCCGGGCCCCGGTGCAGAGCGAAGCTGACTGGCATGGCCTGTGTGGC
CCCCAGAGATGACCAACTGCTGGCTGGGCAGGGCCCCGCTCTCCCCAGATTCTAGCATGGGTATCCTGGGGC
TCACCTGCTGATGCCAGGGCCATCGTCTTTTCTCAGTCCTTCTCCTTTTCAACCATACTTGGCTTTGGGGATGAC
CCCAGACACCCCTGAATCCAGGTGAGAGGTGAGCCACCTTTCTTTCTGCTTGCAAAGCCTATAGACCTTCTC
AGAGCGGTCTCTCATGGCTGGGTTTTCTGGGACACATGTCGAGGACAGAAGGTGGAGGGTGGTGGAGCTGCTGCTG

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FIGURE 4962B

GAAGAAGGGGAAGGAAGAGTGGCCCCTCCCCGAGTTCTAAGTCAGGATGAGGCCCACCTGTCCAAGGTATCGGAA
CCTACCCAGGGGACCCTCAGATCCTCCACCCACTCCCCATCCATTACGATGCCAGCTTCCAGCCTTGCCCAGGT
CAGAGCTGTGGCAGAGGAGAGGCAGCCAGGCCCTGTTCTGCTCAGCTCCTGCTCAGGAAGGCCAGGCCTGACAG
ATGTTTGGGAGAGGAATAAAGTTGTGTTGTTGTGGGGCATGCAGGCGTGCACAC

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FIGURE 4963A

GGCGTGCCCGCCTCGTCCCCACCCCCAACCCCCCGCGCCCGCCTCGGACAGTCCCTGCTCGCCCGCGCGCTGC
AGCCCCATCTCCTAGCGGCAGCCAGGCGGGAGGGAGCGAGTCCGCCCCGAGGTAGGTCCAGGACGGGCGCACA
GCAGCAGCCGAGGCTGGCCGGGAGAGGGAGGAAGAGGATGGCAGGGCCACGCCCCAGCCCATGGGCCAGGCTGCT
CCTGGCAGCCTTGATCAGCGTCAGCCTCTCTGGGACCTTGGCAAACCGCTGCAAGAAGGCCCCAGTGAAGAGCTG
CACGGAGTGTGTCCGTGTGGATAAGGACTGCGCCTACTGCACAGACGAGATGTTTCAGGGACCGGCGCTGCAACAC
CCAGGCGGAGCTGCTGGCCGGGCTGCCAGCGGGAGAGCATCGTGGTCATGGAGAGCAGCTTCCAAATCACAGA
GGAGACCCAGATTGACACCACCTGCGGCGCAGCCAGATGTCCCCCAAGGCCCTGCGGGTCCGTCTGCGGCCCGG
TGAGGAGCGGCATTTTGTAGCTGGAGGTGTTTGTAGCCACTGGAGAGCCCCGTGGACCTGTACATCCTCATGGA
CTCCAACCTCCATGTCCGATGATCTGGACAACCTCAAGAAGATGGGGCAGAACCTGGCTCGGGTCTGAGCCAGCT
CACCAGCGACTACACTATTGGATTGGAAGTTTGTGGACAAAGTCAGCGTCCCGCAGACGGACATGAGGCCTGA
GAAGCTGAAGGAGCCCTGGCCCAACAGTGACCCCCCTTCTCCTTCAAGAACGTCATCAGCCTGACAGAAGATGT
GGATGAGTTCGGAATAAACTGCAGGGAGAGCGGATCTCAGGCAACCTGGATGCTCCTGAGGGCGGCTTCGATGC
CATCCTGCAGACAGCTGTGTGCACGAGGGACATTGGCTGGCGCCCGGACAGCACCACCTGCTGGTCTTCTCCAC
CGAGTCAGCCTTCCACTATGAGGCTGTATGGCGCCAACGTGCTGGCTGGCATCATGAGCCGCAACGATGAACGGTG
CCACCTGGACACCACGGGCACCTACACCCAGTACAGGACACAGGACTACCGTCCGGTGCCACCCCTGGTGCGCCT
GCTCGCCAAGCACAACATCATCCCCATCTTTGCTGTACCAACTACTCCTATAGCTACTACGAGAAGCTTCACAC
CTATTTCCCTGTCTCCTCACTGGGGTGTGTGACGAGGACTCGTCCAACATCGTGGAGCTGCTGGAGGAGGCCTT
CAATCGGATCCGCTCCAACCTGGACATCCGGGCCCTAGACAGCCCCGAGGCCCTCGGACAGAGGTCACTTCCAA
GATGTTCCAGAAGACGAGGACTGGGTCTTTTACATCCGGCGGGGGAAGTGGGTATATACCAGGTGCAGCTGCG
GGCCCTTGAGCACGTGGATGGGACGCACGTGTGCCAGCTGCCGGAGGACCAGAAGGGCAACATCCATCTGAAACC
TTCCTTCTCCGACGGCCTCAAGATGGACGCGGGCATCATCTGTGATGTGTGCACCTGCGAGCTGCAAAAAGAGGT
GCGGTGAGCTCGCTGCAGCTTCAACGGAGACTTCGTGTGCGGACAGTGTGTGTGCAGCGAGGGCTGGAGTGCCA
GACCTGCAACTGCTCCACCGGCTCTCTGAGTGACATTACGCCCTGCTGCGGGAGGGCGAGGACAAGCCGTGCTC
CGGCCGTGGGAGTGCCAGTGCGGGCACTGTGTGTGCTACGGCGAAGGCCGCTACGAGGGTCACTTCTGCGAGTA
TGACAACCTCCAGTGTCCCGCACTTCCGGTTCCTGTGCAATGACCGAGGACGCTGCTCCATGGGCCAGTGTGT
GTGTGAGCCTGGTTGGACAGGCCAAGCTGTGACTGTCCCTCAGCAATGCCACCTGCATCGACAGCAATGGGGG
CATCTGTAATGGACGTGGCCACTGTGAGTGTGGCCGCTGCCACTGCCACCAGCAGTCGCTCTACACGGACACCAT
CTGCGAGATCAACTACTCGCGGATCCACCCGGCCTCTGCGAGGACCTACGCTCCTGCGTGCAGTGCCAGGCGTG
GGGCACCGCGGAGAGAAGAAGGGGCGCACGTGTGAGGAATGCAACTTCAAGGTCAAGATGGTGGACGAGCTTAAGAG
AGCCGAGGAGGTGGTGGTGGCTGCTCCTTCCGGGACGAGGATGACGACTGCACCTACAGCTACACCATGGAAGG
TGACGGCGCCCTGGGCCCAACAGCACTGTCTGGTGCACAAGAAGAAGGACTGCCCTCCGGGCTCCTTCTGGTG
GCTCATCCCCCTGCTCCTCCTCCTGCGCTCCTGGCCCTGCTACTGCTGCTATGCTGGAAGTACTGTGCCTG
CTGCAAGGCCCTGCTGCACTTCTCCGCTGCTGCAACCGAGGTCACATGGTGGGCTTTAAGGAAGACCACTACAT
GCTGCGGGAGAACCTGATGGCCTCTGACCACTTGGACACGCCCATGCTGCGCAGCGGGAACCTCAAGGGCCGTGA
CGTGGTCCGCTGGAAGGTACCAACAACATGCAGCGGCCTGGCTTTGCCACTCATGCCGCCAGCATCAACCCAC
AGAGCTGGTGCCCTACGGGCTGTCTTGGCCCTGGCCCGCCTTTGCACCGAGAACCTGCTGAAGCCTGACACTCG
GGAGTGCGCCAGCTGCGCCAGGAGGTGGAGGAGAACCTGAACGAGGTCTACAGGCAGATCTCCGGTGTACACAA
GCTCCAGCAGACCAAGTCCGGCAGCAGCCCAATGCCGGGAAAAGCAAGACCACACCATTTGTGGACACAGTGT
GATGGCGCCCCGCTCGGCCAAGCCGGCCCTGCTGAAGCTTACAGAGAAGCAGGTGGAACAGAGGGCCTTCCACGA
CCTCAAGGTGGCCCCCGCTACTACACCTCACTGCAGACCAGGACGCCCCGGGGCATGGTGGAGTTCCAGGAGGG
CGTGGAGCTGGTGGACGTACGGGTGCCCTCTTTATCCGGCTGAGGATGACGACGAGAAGCAGCTGCTGGTGGGA
GGCCATCGACGTGCCCGCAGGCACCTGCCACCTCGGCCCGCCGCTGGTAAACATCACCATCATCAAGGAGCAAGC
CAGAGACGTGGTGTCTTTGAGCAGCCTGAGTTCTCGGTACGCCGCGGGGACCAGGTGGCCCGCATCCCTGTCTAT
CCGGCGTGTCTTGGACGCGGGGAAGTCCAGGTCTCCTACCGCACACAGGATGGCACCGCGCAGGGCAACCGGGA
CTACATCCCCGTGGAGGCTGAGCTGCTGTTCAGCCTGGGGAGGCCTGGAAGAGCTGCAGGTGAAGCTCCTGGA
GCTGCAAGAAGTTGACTCCCTCCTGCGGGCGCCAGGTCCGCCGTTTCCACGTCCAGCTCAGCAACCCTAAGTT
TGGGGCCACCTGGGCCAGCCCCACTCCACCACCATCATCATCAGGGACCCAGATGAAGTGGACCGGAGCTTCAC
GAGTCAGATGTTGTATCACAGCCACCCCTCACGGCAGCTGGGCGCCCCGAGAACCCCAATGCTAAGGCCGC

[illegible]

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FIGURE 4964

MAGPRPSPWARLLLLAALISVSLSGTLANRCKKAPVKSCTECVRVKDCAYCTDEMFRDRRCNTQAELLAAGCQRE
SIVVMESSFQITEETQIDTTLRRSQMSPQGLRVLRPGEERHFELEVFEPLSPVDLYIIMDFSNSMSDDLDNLK
KMGQNLARVLSQLTSDYTIGFGKFVDKVSVPQTDMRPEKLKEPWPNSDPFSSFKNVISLTEDVDEFNRNLQGERI
SGNLDAPEGGFDAIILQTAVCTRDIGWRPDSTHLLVFSTESAFHYEADGANVLGIMSRNDERCHLDTTGTYTQYR
TQDYPSVPTLVRLLAKHNIIPFAVTNYSYSYIEKLHTYFPVSSSLGVLQEDSSNIVELLEAFNRIRSNLDIRAL
DSPRGLRTEVTSKMFQKTRTGSFHIRRGEVGIYQVQLRALEHVDGTHVCQLPEDQKGNHILKPSFSDGLKMDAGI
ICDVCTCELQKEVRSARCSFNGDFVCGQCVCSEGWGQTCNCSTGSLSDIQPCLREGEDKPCSGRGECQCGHCVC
YGEGRYEGQFCEYDNFQCPRTSGFLCNDRGRCMSGQCVCPEGWTPGSCDCPLSNATCIDSNGGICNRRGHCECGR
CHCHQQSPLYTDTICEINYSIAHPGLCEDLRSCVQCQAWGTGEKKGRTCEECNFVKVMVDELKRAEEVVVRCSEFRD
EDDDCTYSYTMEGDGAPGNSTVLVHKKKDCPPGSFWWLIPLLLLLLPLALLLLLCWKYCACCKACLALLPCCN
RGHMVGFKEGDHYMLRENLMASDHLDTPMLRSGNLKGRDVVRWKVTNNMQRPGFATHAASINPTLVPGYLSLRLA
RLCTENLLKPDRTRECAQLRQEVEENLNEVYRQISGVHKLQQTFRQOPNAGKKQDHTIVDTVLMAPRSAPKALLK
LTEKQVEQRAFHDLKVAPGYTTLTADQDARGMVEFQEGVELVDVRVPLFIRPEDDDEKQLLVEAIDVPAGTATLG
RRLVNITIIKEQARDVVSFEQPEFSVSRGDQVARIPVIRRVLDGGKSQVSYRTQDGTAGNRDYPVEGELLFQP
GEAWKELQVKLLELQEVDSLLRGRQVRRFHVQLSNPKFGAHLGQPHSTTIIIRDPELDRSFTSQMLSSQPPPHG
DLGAPQNPNAKAAGSRKIHFNWLPSPGKPMGYRVKYWIQGDSESEAHLLDSKVPVELTNLYPCDYEMKVCAYG
AQGEGPYSSLVSCRTHQEVPSSEGRALFNVVSTVTQLSWAEPATNGEITAYEV CYGLVNDNRP IGPMKKVLV
DNPKNRMLLIENLRESQPYRYTVKARNGAGWGPEREAIINLATQPKRPM SIP IIPDIPVDAQSGEDYDSFLMYS
DDVLRSPSGSQRPVSDDTGCGWKFEPLLGEELDLRRVTWRLPPELIPRLSASSGRSSDAEAPTAPRTTAARAGR
AAAVPRSATPGPPGEHLVNGRMDFAFPGSTNSLHRMTTTSAAAYGTHLSPHVPHRVLSTSSTLTRDYNLSLTRSEH
SHSTTLPRDYSTLTSVSSHDSRLTAGVPDTPTRLVFSALGPTSLRVSWQEPRCERPLQGYSV EYQLLNGGELHRL
NIPNPAQTSVVVEDLLPNHSYVFRVRAQSQEGWGREREGVITIESQVHPQSPCLPLPGSAFTLSTPSAPGPLVFT
ALSPDSLQLSWERPRRPNGDIVGYLVTCEMAQGGGPATAFRVDGDSPE SRLTVPG LSENVYPYKFKVQARTTEGFG
PEREGITITIESQDGGPFPQLGSRAGLFQHPLQSEYSSITTTHTSATEPFLVDGLTLGAQHLEAGGSLTRHVTQEF
VSRTLTTSGLSTHMDQQFFQT

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FIGURE 4965A

CAAGGGGCCAGGACCTGAGTTTTATTGGGCCTTGACTAATGTGCCTCCTCATCTGTGTCTCACCCTCATTGTG
GACTTAGGTTTCAGGTATCTCAGAGGCAGACCCACAGGCTCTGCTCCAGGCCATGAAGGACCTGGACGGCATGGA
TGCTGATATCTTAGGTCTGAAGAAATCTAATTCAGCCCCTAGCAAAAAGCTGCAAAGGACCTGGGAAAGGAGA
GCTGCCCAACCAACCCCAAGCCTGCAGGGGGTGCCATTCCCACCAAGAAGTCACTTCCGTCTCCAGCAGCTCTGG
GCATCAGAACAGGAGGTTTTCTCTGAAGACTTGAAGACCCATTGAGAGGACTTCTCTCTATGATGAAGGAGG
AATCACCAAGCAGCCGCTGTGACACAGAGTAAACAGCTTGTGACAAGAGCCCCAGCACAGTGAGAGATCAAGG
TCCCTCTATTCTCTAACTCCTGGGGACACCCCCATCCGAAAAAAGAAGAATTGTTGTTTATGATGAGGGATGA
CATCATGGCCACCTTGGGGTTTGGAGACAGCCCCAAAGCAGAGAAGAGGCAGATAGGAGACCAGGAAGGGCCTCG
CCCTGCTCGCTCACGCTGGATGAGCTGCTGGGTGAGGCATGGCCACCAAACTCCTGGCCCCCGGGGACCGG
GGAGCACAGGGAGTTCAAGCTAGACAAGAAGTACCAGAGGCCACAGGACAGTGAAGATATGTGGGGTGACGAGGA
CTTCACCTTTGGAGCCTATCAGCCCCTGTGGTCTCCTCTGAGGGCCGGCAGTCCCGCCGGCAGTCTGTCACTAG
GTCTTTCGACAGAGTGGCGCAGACCCCAAGGGAGAACCAGGCTCCAAACAGAGCCCTCCAATGGCTTCCAGCCC
CATCCAGCCCAGGAAGGGAGGAGCTGACTGGTTGGGCCTCAAGGACGAGGACTTGGACCTGTTCCCTGCCTCACC
CACCAGAGAGGCCCATCGGGAAAGTTCACTGCTGTACGCCCTCAGTGCTCTCCTGCGAGCCAGCACTCCAC
GCCAGCTGGGCTGCCCCCTCCAGGGCAAAGCCACCAACTGAAGGTGCAGGGTCCCTGCCAAAGCCAGCCAGGC
TTCCAAGCTGCGAGCCTCCAAGGAGGAGAAAGAGGACTGGCTGAGCCATGCCCTGTCTCGGAAGAAGTCCCAAGG
CCTGGCCAGAGAGCAGCATGCTGGGACCTCTGAGGGCCTGCATTGGCGGGGACAGCGGGCCATCCCCCTTCTGG
CAGCCTGACCTGGGCCTTCTGTACCTTACCTTGAACGCTGCCTTTCTCAGCCAACCTCTCACCAGCACACAA
GGGCTTGAGCACGCAGCTGCTGGAGGGAGTTCTGGAACAACGCACGAGAAAGACCGTGTGTAGGCCTGGTGTG
TCGGGGTCCCCTGTGACTCAGAACCATGCCGCTCAGCACTCCCTACAGGTTCCCCAAAGAGGGGAACAGCCCCT
GGAGACCTCTCAGCCACTGAGCCTGCCACGTGTTTCCGAGCACCCAGAAACCCACAGAGCCTTCCGTGCCCGTC
CAGCCCCTGCTCCCAGAGTCCCTGGCCCGAGCCTGCTGCCGAGCACAGAATACCAGAAGCAGCTCCTGGCAGCA
CAGGTGCAACTTCAGTGACAGCCCCGCTGAGCTCCAGGCCGAGCTGCTGCATAGCCAGGCCCGGCTGGCAGAGCTG
GAGGCCCAGGTGCGGAAGCTGGAGCTAGAACGGGCCAGCATGAGCTGCTGCTGGGGAGTCTGCAGCAGCAGCAC
CAGGCAGACCTGGAGCTCATCGAGAGTGCACACAGAAGCCGCATCAAGGTGCTAGAAACATCGTACCAGCAACGG
GAGGAGCGGCTCCGGAGAGAGAACGAAGAGCTGTGAGCTCGGTATCTGTGCGAGTGCCAGGAGGCCGAACAGGCC
CGTGCTGAGCTTACGGCCAGCACAGCGGCGCTTGGCGGCCATAGCGCAGGAGAAGGACCAGGAATGGAGCGG
CTCCGGGAGCTGCAGCGGGCGTCCATCCTAGACATGCGCAGAGACCAGAGGAGCAGCTGCAGCGGCTAAAGCTG
CTGAAGGACCGAGAGGTGATGCGGCCACAGTGCCACCTCCACACACGGTCCCTGAATAGCATCATCCACCAG
ATGGAGAAGTTCTCCAGCAGCCTGCACGAGTTGTCTCCCGCTGGAGGCCTCGCACCTCACCACCTCCAGGAG
CGGGAGCTGGGGATCCGGCAGCGTGACGAGCAGCTGCGGGGAGCGGCTGGGCCAGCAGCAGCGGGACATGGAGGA
GGAGCGGAGCCGGCAACAGGAGGTGATCGGGAAGATGGAGGCACGGCTGAATGAGCAGAGCCGGCTGCTGGAGCA
GGAACGCTGGCGGGTACTGCCGAGCAGTCAAGGCGGAGTCCATGCAGCGCGCCCTAGAGGAGCAAAGGAAGGT
CACGGCCCAGCAGATGGCCATGGAAGGGCGGAGCTGGAACGGGCCAAGAGCGCCTTGCTGGAGGAGCAGAAGTC
TGTCATGCTCAAGTGCGGGGAGGAGCGGCGGCGCTGGCTGCCGAGTGGGCGGAGTTCTCCGCGCAGCAAAAGCT
GAGAGCAGGCTGAGCTGAAGATCAGGGCCAGCGAGCTCCGGGCCGAGGAGAAGCAGCTGGCAGCGGAGAGAGCAG
CCCTGGAGCAGGAGCGGCAGGAGCTGCGGCTGGAGAAGGAGAGGATCAACGCCACCGCCCTGCGTGTCAAGCTCC
GCGCCGAGGAGGTGGAGAGCATGAGCAAGGTGCCCTCCGAGAAGTACGAGGAGGGGGAGCGGGCATTGCGCGAGG
CCCAGCAGGTGCAGGCAGAGCAGCAGGCCCGGTTGCAGGCGGTGCAGCAACAGCAGGAGCGGCTGCGGAAGCAGG
AGCAGCACATGCACCAGGAGCATCTGAGTCTGGCCCAGCAGAGGCTGCAACTGGACCGCGCACAGCAGGACCTGC
CCTCTAGCCTCGTGGGTCTGTTCCTCAGGGCCAGGGCCCTGCAGCCTCCAGCCAGAGTGCCTCATGCCTCCTG
CTCCACCACCCGTTGGTGCAGCCAGCCGCCAACTGGCCTGGACCCAGCCCCTGCACCTCCATGCCAGGCTGG
CACTGCTGAGGCACATGGCAGAGCAGCACCTGCGGTCTGCGGTGGCACCTGGCAGCTGGACCACAGCCAGGAGAA
GGGTACTATTAGCCCTGCTTCAAACATGCAGAACTGAGGCCCGGGGAGATTAAATAACCTGCCTGAAATGACAC
CGTCTGGGCCCGCGGACACCCCCCTGGGGCCGATGCCAACAGTGACATCGACTTGAGCAACCTGGAGCGGCT
GGAGAAGTACCGGAGCTTCGACCGCTACCGGCGCGGAGCAGAGCAGGAGGCGCAGGCCCGCAGCTGGTGGCGGAC
CTACCGAGAGTATTTGGGGAGAAGACAGATCCCAAAGAGAAGATTGATATTGGGCTGCCTCCACCCAAAGTCTC
CCGACCCAACAGCTACTGGAACGGAAACAGGCCATCCAGGAGCTTCGGGCCAATGTGGAAGAGGAGCGGGCTGC

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FIGURE 4965B

CCGCCTCCGCACAGTGTCCCGCTGGATGCCGTGCGGGCCGAGTGGGAGAGGACCTGTGGCCCCCTACCACAAGCAG
CGTCTGGCTGAGTATTACGGCCTCTACCGAGACCTGTTCCACGGTGCCACCTTTGTGCCCCGAGTCCCCCTGCAC
GTGGCCTACGCTGTGGGTGAGGATGACCTGATGCCTGTGTACTGTGGCAATGAGGTGACTCCAACCGAGGCTGCC
CAAGCGCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTGGACGTTGCTACTCACTAGCTTGGATGGGCAC
CTGCTGGAGCCAGATGCTGAGTACCTCCACTGGCTGCTAACCAACATCCCGGGTAACCGGGTGGCTGAAGGACAG
GTGACGTGTCCCTACCTCCCCCCTTCCCTGCCCCGAGGCTCCGGCATCCACCGTCTTGCTTCCCTGCTCTTCAAG
CAGGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCCCTCACCTGCTATCAGCTGGCCCAGCGGACCTTCCGC
ACTTTTGATTCTACAAGAAACACCAAGAAACCATGACTCCAGCCGGCTTGTCTTCTTCCAGTGCCGCTGGGAT
GACTCCGTCACCTACATCTTCCACCAGCTTCTGGACATGCGGGAGCCGGTGTTTGAGTTCGTGCGGCCGC

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FIGURE 4966

MAPKTKKGCKVTLPEKPVKLASHTRDTTGVSQMFSSKARTKSLLGDDVFSTMAGLEEADAIEVSGISEADPQALL
QAMKDLDGMDADILGLKKSNSAPSKKAAKDPGKGELPNHHPKAGGAIPTKKSILPSPSSSGHQNRFFSSELEDPL
RGLLSYDEGGITKQPPVTQSKTASDKSPSTVRDQGPSIPLTPGDTPIRKKEELLFDDGDDIMATLGFGDSPKAEK
RQIGDQEGPRPARSTLDELLGRGMATKLLARPGTGEHREFKLDKKYQRPQDSEDMWGDEDFTFGAYQPTVVSSEG
RQSRQSVSRFFADSGADPKGEPGSKQSPPMASSPIQPRKGGADWLGLKDEDLDLFPASPTREAHRESSVPVTPS
VPPPASQHSTPAGLPPSRAKPPTGAGSPAKASQASKLRASKEEKEDWLSHALSRKKSQGLAREQHAGTSEGLHL
AGTAGHPPSGSQPLTSTQGLEHAAAGGSSGTTARERPCVRPGVSGSPVTQNHAASALPTGSPKRGTAPGDLSATE
PATCFPSTQKPTEPSVPVQPLLPESLARSLLPSTEYQKQLLAAQVQLQCSPAELQAELLHSQARLAELEAQVRGS
GAVGAGGRVATGGDTESGWKLPQEGGRAVGTGQRGVQPPPLPGCWPSCCLPGAEGARTGPA

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FIGURE 4967

CCCGAGCATCCCGCGCCGACGGGGCTGTGCCGGAGCAGCTGTGCAGAGCTGCAGGCGCGCGTCAATGGCTGCTTTG
AGACAGCCCCAGGTCGCGGAGCTGCTGGCCGAGGCCGCGAGCCTTCCGGGAGGAGTTCGGGGCCGAGCCCGAG
CTGGCCGTGTGACGCGCCGGGCGCGTCAACCTCATCGGGGAACACACGGACTACAACCAGGGCCTGGTGCTGCCT
ATGGCTCTGGAGCTCATGACGGTGCTGGTGGGCAGCCCCGCAAGGATGGGCTGGTGCTCTCTCTCACCACCTCT
GAGGGTGCCGATGAGCCCCAGCGGCTGCAGTTTCCACTGCCCCACAGCCCAGCGCTCGCTGGAGCCTGGGACTCCT
CGGTGGGCCAACTATGTCAAGGGAGTGATTCACTACTACCCAGCTGCCCCCTCCCTGGCTTCAGTGCAGTGGTG
GTCAGCTCAGTGCCCCGTTGGGGGTGGCCTGTCCAGCTCAGCATCCTTGGAAGTGGCCACGTACACCTTCCTCCAG
CAGCTCTGTCCAGACTCGGGCACAATAGCTGCCCCGCGCCAGGTGTGTCAGCAGGCCGAGCACAGCTTCGCAGGG
ATGCCCTGTGGCATCATGGACCAGTTCATCTCACTTATGGGACAGAAAGGCCACGCGCTGCTCATTGACTGCAGG
TCCTTGAGAGACCAGCCTGGTGCCACTCTCGGACCCCAAGCTGGCCGTGCTCATCACCAACTCTAATGTCCGCCAC
TCCCTGGCCTCCAGCGAGTACCCTGTGCGGCGGCGCCAATGTGAAGAAGTGGCCCGGGCGCTGGGCAAGGAAAGC
CTCCGGGAGGTACAAGTGAAGAGCTAGAGGCTGCCAGGGACCTGGTGAGCAAAGAGGGCTTCCGGCGGGCCCGG
CACGTGGTGGGGGAGATTGCGCGCACGGCCCAGGCAGCGGCCGCCCTGAGACGTGGCGACTACAGAGCCTTTGGC
CGCCTCATGGTGGAGAGCCACCGCTCACTCAGAGACGACTATGAGGTGAGCTGCCCAGAGCTGGACCAGCTGGTG
GAGGCTGCGCTTGCTGTGCCTGGGGTTTATGGCAGCCGATGACGGGCGGTGGCTTCGGTGGCTGCACGGTGACA
CTGCTGGAGGCCTCCGCTGCTCCCCACGCCATGCGGCACATCCAGGAGCACTACGGCGGGACTGCCACCTTCTAC
CTCTCTCAAGCAGCCGATGGAGCCAAGGTGCTGTGCTTGTGAGGCACCCCCAGGACAGCACACGGTGAGGGTGCG
GGGCTGCAGGCCAGTCCCACGCTCTGTGCCGGTGCCATCTTCCATATCCGGGTGCTCAATAAACTTGTGCCT
CCAATGTGGTA

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FIGURE 4968

MAALRQPQVAELLAEARRAFREFGAPELAVSAPGRVNLIGEHTDYNQGLVLPMALELMTVLVGSPRKDGLVSL
LTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGVIQYYPAAPLPGFSAVVVSSVPLGGGLSSSASLEVATY
TFLQQLCPDSGTIAARAQVCQQAHSFAGMPCGIMDQFISLMGQKGHALLIDCRSLETSLVPLSDPKLAVLITNS
NVRHSLASSEYPVRRRQCEEVARALGKESLREVQLEELEAARDLVSKEGFRRARHVVGIEIRRTAQAAAALRRGDY
RAFGRLMVESHSLRDDYEVSCPELDQLVEAALAVPGVYGSMTGGGFGGCTVTLLEASAAPHAMRHIQEHYGGT
ATFYLSQAADGAKVLCL

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FIGURE 4969

GGTCGTTTCGTTGGGCGGTGCTGGTTTTTCGCTCGTCGACTGCGGCTCTTCCTCGGGCAGCGGAAGCGGCGGGCG
GTCGGAGAAGTGGCCTAAAACTTCGGCGTTGGGTGAAAGAAAATGGCCCGAACCAAGCAGACTGCTCGTAAGTCC
ACCGGTGGGAAAGCCCCCGCAAACAGCTGGCCACGAAAGCCGCCAGGAAAAGCGCTCCCTCTACCGGCGGGGTG
AAGAAGCCTCATCGCTACAGGCCCGGGACCGTGGCGCTTCGAGAGATTGTCGTTATCAGAAGTCGACCGAGCTG
CTCATCCGGAAGCTGCCCTTCCAGAGGTTGGTGAGGGAGATCGCGCAGGATTCAAACCGACCTGAGGTTTCAG
AGCGCAGCCATCGGTGCGCTGCAGGAGGCTAGCGAAGCGTACCTGGTGGGTCTGTTCGAAGATACCAACCTGTGT
GCCATCCACGCTAAGAGAGTCACCATCATGCCCAAAGACATCCAGTTGGCTCGCCGGATACGGGGAGAGAGAGCT
TAAGTGAAGGCAGTTTTTATGGCGTTTTGTAGTAAATTCTGTAAAATACTTTGGTTTAATTTGTGACTTTTTTTG
TAAGAAATTGTTTATAATATGTTGCATTTGTACTTAAGTCATTCCATCTTCACTCAGGATGAATGCGAAAAGTG
ACTGTTACAGACCTCAGTGATGTGAGCACGTGTGCTCAGGAGTGACAAGTTGCTAATATGCAGAAGGGATGGGT
GATACTTCTTGCTTCTCATGATGCATGTTTCTGTATGTTAATGACTTGTTGGGTAGCTATTAAGGTACTAGAGTT
GATAAATGTGTACAGGGTCCTTTTGCAATAAACTGGTTATGACTTGATCCAAGTGTTAACAATTGGGGCTGTT
AAGTCTGACCATAACATCACTGTGATAGAATGTGGGCTTTTTCAAGGGTGAAGATACAAGTCTTAACCACAGTGTA
ACTTACAGTTTCCTTTAAAAAAGTAAACCTGGCAGCTATAGAATACACTATGTGCATTTATAATAGCT
ATTTTATATATTGTAGTATCAACATTTTAAATTAATGTTTTACATTCAAGTGGTGGGGAGTCTTGTCATTA
AGGTGTGTGTAATTTAGAGTCCAGTTGGTTTTCTTCTGACTGCACTTGTTCTCATAGTAGTAAATGCTATGCGC
ATTTATACCTTGATAAGTCCCTCATTCTACCACATGTTAACCCTCTAGCTGATAATGCAAACACTAACTGGGGGA
TTTTATTATAAGGGCTCTAGAAAAACGAGTTATTCACACCAGCATCATCTTAACATACTCTGAAGTATGTA
GTGCAGCTTTTCATTGTGTGTGTGGTGGTCTCATAACTAGGTTGAGTTTTTCTCCTCTGCTGAGGAAACAGTA
CCGAAGTTCTTTTTCTTGTTGGCATTGTATTATAAACTTGGTGTGGGGGAGGAGCACAAAACCTCCAGCCCACT
GAACCTCTGCCAATTAAGATGGTGTGGGTTAGGTTACATCTGGTTACTGTCTGGGAAAATCATTTTTATAGAG
ATGGCCTTCCAAGTGGTTTTAAATTTACTGAAGTTTTTAGGTCAATTATGTATGTTGACTAAATTTACAAATAA
ACTTGTTTATCC

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FIGURE 4970

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREI
AQDFKTDLRFSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA

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FIGURE 4971A

GAAGAGGCAGGAAGACAAGACCATGTCTGAAGGGCCCCGGGCCCCGGCGGCTCCGCAGCTTCCTCGGCGCCCCGGC
CGCTACCGCTCAGGTGCTGCAGGCACAGCCGAGAAACCGCAGCACTACACGTACCTGAAAGAATTCCGCACAGA
GCAGTGGCCACTCTTTGTGCAACACAAATGCACGCAGCATCGGCCCTACACCTGCTTCCACTGGCACTTCGTGAA
CCAGCGGCGCGCGCGGTCCATCCGCCGTGGGACGGCACCTTCAATTACAGCCCTGACGTCTACTGCACCAAGTA
CGACGAGGCTACAGGCTCTGCCCGAGGGCGACGAGTGCCATTCTGCACAGAACCACAGGGGACACTGAGCG
CAGGTACCACCTTCGTTACTACAAACTGGAATCTGCATCCACGAGACAGACTCGAAAGGCAACTGCACCAAAAA
CGGCCTGCACTGCGCTTTTGGCCACGGGCCCCATGACCTCCGCTCCCTGTCTACGACATCAGGGAGCTTCAGGC
CATGGAGGCCTTGCAAGATGGCCAGACCACGGTAGAGGGGAGCATAGAGGGCCAGTCGGCTGGGGCTGCGAGCCA
TGCCATGATAGAAAAGATCCTCAGCGAGGAGCCTCGGTGGCAAGAGACTGCTTATGTGCTGGGGAACATAAGAC
GGAGCCTTGCAAGAAGCCCCCGCGGTGTGCCGCCAAGGCTATGCCTGTCCCTACTACCACAACAGCAAGGACCG
GCGCGGAGCCCCCGGAAGCACAAATACAGGTCTGTCTCCATGTCCAAACGTCAAGCACGGGGATGAGTGGGAGA
CCCTGGCAAGTGTGAGAACGGAGACGCTGCCAGTACTGCCACACCCGCACCGAGCAGCAGTTCCACCCCGAGAT
CTACAAGTCCACCAAGTGAACGACATGCAGCAGTCGGGCAGCTGTCCCCGAGGACCCTTCTGCGCCTTTGCCCA
CGTAGAACAGCCACCCCTGAGTGACGACCTGCAGCCTTCTCAGCTGTGTCCAGCCCCACCCAGCCAGGTCTGT
CCTGTACATGCCATCTGCCGCCGAGACTCGGTGCCTGTGAGCCCCCTCAGCCCCGATGCCCTGACCTCAGTGC
CCTCCTCTGTAGAACAGCAGCCTAGGCAGCCCGTCTAACCTCTGCGGCTCCXCCACCGGGCTCCATCAGGAAGC
CCCCAAACCTGGAGGGCATCGTCTTCCCTGGGGAGTCTGGCCTGGCCCTGGCAGCTATAAGAAGGCTCCCGCT
TCGAGAGGGAAGACCAGGTGGGAGCCGAGTACCTGAAAAATTTCAATGCCAGGCCAAATTAACCCCACTCAT
TAGAGCCCAGGAGTCAAGAGCAGCCTCTGCTTCAGCCCAAACAGGACATGCTGGGCATCTCCCCGAGGCAGCC
CCCTGACCTCAAGCATCTCTTCTAGTATCACCTCCAGCCTGGCAGCTACCCCCCTAGCCAGTGGGCACCAGCA
GCGTCCCCGGCATGAATGCAAACGCTCTGCCCTTCTACCCACACAGCGACACGGTAGAGTCAGTCATAGAGTCTG
CTTTGGATGACCTGGACCTGAATGAGTTTGGCGTGGCCGCCCTGGAGAAGACTTTGATAACAGCACAGTGGCCC
ACCCAGGAAGCATCACCATCGGCGGCAGCTTGCTGCAGAGCTCTGCACCCGTGAACATCCCCGGCTCCTTGGGCA
GCTCTGCCTCCTTCCACTCAGCATCCCCGTCCCTCCGTCAGCCTCTCCTCGCATTTCTGCAGCAGCCCCAGG
GCCACCTGAGTCAGTCGGAACACATTTTTGGGAACCTCAGCATCACATGGATCTTTGGGTCTGAACGGGATGA
ACAGCAGCATCTGGGAGCATTTTGCCTCTGGAAGCTTCTCCCCGGGCCTTCCCCCGCTTCTCTATCAGGGCCAG
GGGTGCCGAGCTGGCCCGACTTCGGCAAGAGCTGGATGAAGCCAACAGCACCATCAAGCAGTGGGAGGAGTCTT
GGAAGCAGGCCAAGCAGGCTTGTGATGCCTGGAAGAAAGAGGCGGAGGAGGCTGGTGAGCGGGCCAGTGCAGCGG
GCGCCGAGTGCAGCTGGCCCGGAGCAGCGGGATGCACTGGAGGTGCAGGTGAAGAAGCTCCAGGAGGAGCTGG
AGCGGCTACACGCGGGGCTGAGCCCCAGGCCCTGCCCGCTTCTCCGACCTGGAGGCGCTCTCACTCTCCACCC
TCTACTCCCTCCAGAAACAACCTGCGGGCCACCTGGAACAAGTGGACAAGGCCGTGTTCCACATGCAGTCGGTGA
AATGCCTTAAGTGTGAGGAACAGAAGCGGGCAGTGCTGCCGTGCCAACACGCTGCGCTGTGTGAGCTCTGCGCTG
AGGGCAGCGAGTGGCCCATCTGCCAGCCTGGCCGGGCCCCACACCTCCAGTCGTGACCCTGCAGGCCTGGCCAG
CCTGGCCAGATCTTCTACCTAGGACTTTTTAAAGTATATATATATATATGAATATATATATATATGTGTATGT
ATGTATGTATATGTATATGATTATGTATATGTATACATTTCCGTATGTATGTATATGTATACATTTCCGTATGTG
TGCAGGTATGCGTGGTGGTGTGGACAGTGTCTGTGTGTATATCTGTACATAGATATAGACACACACTTTAAAGA
CTTACCAAGCACTTTTTAAAGAAGAACTATTTTGCAGTCTTCCCTACCCACTCCCTGCCCTTCCCACTGCAG
AGATGACATCCCTCTTCTCCCACTGGCCTTTTGGCAGAGAATCTGGTCTGTCTCTTTTTTAATGTAGGAACTA
ACTATTTTTAACTTCTTCTGGGGCCTGAGCAGGGAAGGGTGGGACTGGAAGGCACTAAGGGGAAGGGAGAAGCC
CTCAGGCGAGGCCCTGCTCCCCCTACCTCCTTGCCAGGGCAAGGGTGGAGTGTGGAAGACGTGGGTCCCCCAGAG
CAGGCTGGCCCCCAGCTXGXTGAGGGCCTCAGGGAGGCCCGAGGGGGAGTGCTGGGGGTCTCAGCTGGCTTAGC
TCCTAAGTTTACCAATGTTAATTTAGTCTTGGGGAGAACAGCAAGGGCTGGAGGCCAGTGCTGCAGGGCCAGCC
CCACTCCTGACACCTGGGCCCTTGAAGTCTCTTGAAGGGCAAGGCCAGGAGTTCCAGCCCTCAGGTTCTCTGAGG
GTCCACCTCAGTCTTCCCCCGCGGCCCTCCCCGGACTCCCCACAAGAGCCTCCCTGGCCCCAGGGCCGCT
ACCAGGCTGGTACTCATTCTATGACCACCGCCCCCAACCAGCTGCCCCCAGCTCTCCCTGGCCCCCTCCCCCTCT
GGCAGCTAGCAGGGCAATTGGCGGGGAGGAGTGCGGACTGAGGACTGAGGACCAAGGGGGCCAGGCCCTGCCCT
CCTACCCGGAGGGGCTCCGTTTGCAATTCCTTGGTGCTCTCTGAGTGCAGCTGGTGTCCCGCCTGTTCTGGGCGG
ACGCCTGTGTGCGTGTGTGTGTCCTGTCCAGTGTATATTGTGTCTTAGCTTCCATTTAAAAATTTGTCTGTAC

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FIGURE 4971B

AGAGAGAGATGCAGCAGGGGCGGGAGGGCAGAGTGGGCGGAGGGGAGCAGCCGCACCCCCAGCACCGGGTGTCTG
CGGTAGGAACAAGAGGGGCTGAGAGGGTCTGGTCCTGGCCCAGGCTCCCCCTGGGCTCAGCACGAAAGGGCTTTC
AATGAATTAAGTGAAACTTTTTCCTTTTTTACAAAAATGCAAAAATCAACAAAGCTCCAAACCTATTGGAATA
AAATATGAACTTGC

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FIGURE 4972

MSKGPGPGGSAASSAPPAATAQVLQAQPEKPQHYYTLKEFRTEQCPLFVQHKCTQHRPYTCFHWHFVNQRRRSI
RRRDGTFNYSPOVYCTKYDEATGLCPEGDECPFLHRTTGDTERRYHLRYKGTGICIHETDSKGNCTKNGLHCAFA
HGPHDLRSPVYDIRELQAMEALQNGQTTVEGSIEGQSAGAASHAMIEKILSEEPRWQETAYVLGNYKTEPCKKPP
RLCRQGYACPYHNSKDRRSPRKHKYRSSPCPNVKGDEWGDPGKCENGDACQYCHTRTEQQFHPEIYKSTKCN
DMQQSGSCPRGFFCAFAHVEQPPLSDDLQPSAVSSPTQPGPVLYMPAAGDSVPVSPSSPHAPDLSALLCRNSS
LGSPSNLCGSXTGLHQEAPKPGGHRPLPWGVWPGPWQL

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FIGURE 4973

TGCGTTTTGAGTCTCGGGACCCCTGTTGGAGAGACTATGGCGCTCAACAAGAATCACTCGGAGGGCGGCGGAGTG
ATCGTCAATAACACCGAGAGCATCCTAATGTCCATGATCACGTGGAATCACATTCAATGACATGAAGAACGTG
CCAGAAGCCTTCAAAGGGACCAAGAAAGGCACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGC
AAGGATGCCATGCAGTCCCTCATGATGCCATTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCGTATTTGGT
GCAAACTACATCAAGGGAACAGTGAAGGCGGAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCTACAAGTTGACT
TTCACGGCAGGGGGCGCCATTGAGTTCCGACAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTC
CCCAGTGGAGCCTATGGCTACTCTTACATGCCCAGCGGGGCTATGTCTATCCCCCGCCAGTCGCCAATGGAATG
TACCCCTGCCCTCCTGGCTACCCCTATCCACCGCCCCACCTGAGTTCTATCCAGGACCCCCCATGATGGACGGG
GCCATGGGATACGTGCAGCCCCACCACCGCCCTACCCTGGGCCCATGGAACCTCCGGTCAGCGGCCCCGATGTC
CCCTCCACTCCTGCAGCCGAAGCCAAGGCCGAGAAGCAGCCGCCAGCGCCTATTACAACCCAGGCAATCCTCAC
AACGTCTACATGCCACGAGCCAGCCGCGCCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAGTAGGCC
CTCCTGCCTCCCTGCCTCCCAACCCTCATCTCTTACCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAG
GGGAGGGGGCGCCTTGTCTCCCTCCAGGTCTGATCATAAACAATTACCAGGAAGTAGCATTGTGGGACATTAGG
GCCCCCGCCTCGGGAGAGGTGCCGCCCAGCTTCCCATGCCAGCCCGGAGCCACAGTGCTGCCCAGCGTACCTC
CCTCACCGTCTGGGGCTCTTCTGGGAGCACGGAGCATCCCCTGTTCTGTTTCACTCTCAGCTTCTCCCCTCGAA
GGGACTCTCTGGCCACCTCCTCCACCGCAGTCCAGCTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATG
AGCCACTTCAGACCAGCCAGAAGGAGCTTCCCTGACTGGAACAGAGAATGCATGTCTGTCCACTTGGTGGCTGCT
GGGTGGGGCCGGAACAAGGGCCCTGACCCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCAGCCTGCTTCT
TCCCCTTAAGCTTTGTGCCCTGGATGCGCTAACATTCACTCTTGTGTTGTCCTGGACTGGCCATGAAGTGAGGA
GATGGTTATTTAAAGAGAATTCCCTATTTATTTGACAAAAATCCAGTTAATATATTAATGTGAAATAAACCCCTG
TTTGACCTCG

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FIGURE 4974

MALNKNHSEGGGVIVNNTESILMSYDHVELTFNDMKNVPEAFKGTKKGTVYLTPYRVIFLSKGKDAMQSFMMPFY
LMKDCEIKQPVFGANYIKGTVKAEAGGGWEGSASYKLTF TAGGAIEFGQRM LQVASQASRGEVPSGAYGYSYMP S
GAYVYPPPVANGMYPCPPGYPPPPPEFYPGPPMMDGAMGYVQPPPPYPGPMEPPVSGPDVPSTPAAEAKAAE
AAASAYYNPGNPHNVMP TSQPPPPYYPPEDKKTQ

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FIGURE 4975

GGTGCGCAAGGGCACGGACCTCGGAGCTCTCCCCGTTCCCCCGCCGGCCATGAACGCCGCTCGCACCGGCTACCG
AGTCTTCTCGCCAACCTCCACGGCCGCTGCACGGAGCTGGCCAAAGCGCATCACAGAGCGCCTTGGTGCTGAATT
GGGGAAGTCTGTTGTATATCAAGAGACCAATGGAGAAAACAAGAGTTGAAATAAAAGAAATTTGTTCTGGGCAAGA
TATTTTCATTATACAGACAATACCCAGAGATGTGAATACAGCTGTGATGGAGTTGCTCATCATGGCTTACGCACT
GAAGACTGCCTGTGCCAGGAACATTATTGGGGTCATCCCCTACTTCCCCTACAGCAAGCAGAGCAAGATGAGGAA
GAGGGGTTCCATTGTGTGCAAGCTGCTAGCATCCATGCTGGCGAAAGCAGGTTTAACTCACATTATCACTATGGA
TCITTCATCAAAAGGAAATACAAGGCTTTTTTCAGCTTTTCTGTGGACAACCTTAGAGCCTCACCTTTCTGCTTCA
GTATATCCAGGAAGAAATTCCAAATTACAGAAATGCAGTCATTGTAGCTAAGTCTCCTGATGCTGCAAGAGGGC
CCAGTCCTATGCGGAGAGACTGCGTCTGGGTTTGGCCGTCATTACGGGGAAGCTCAGTGCACGGAAGTGGACAT
GGACGATGGTCGTCCTCCCCGCTATGGTCAAAAATGCTACTGTGCACCCAGGCCCTGGAGTTGCCATTGATGAT
GGCCAAAGAGAAGCCACCGATAACTGTAGTTGGAGATGTTGGAGGCCGCATCGCAATCATCGTGGATGACATTAT
TGACGATGTGGAGAGTTTTTGTGCTGCCGCGGAGATCCTGAAAGAGAGAGGCGCCTATAAGATCTATGTTATGGC
CACCCACGGCATCCTGTCTGCAGAGGCCCCCTCGCCTGATTGAGGAGTCTCCGTAGACGAGGTGGTGGTGACGAA
TACTGTCCCTCATGAGGTTTCAAGCTGCAATGTCCCAAGATAAAGACTGTGGATATCAGTTTGATTCTTTCTGA
AGCCATTCCGAGAATCCACAATGGAGAGTCCATGGCCTACCTTTTCCGAAACATCACTGTGGATGACTAGCTTTTC
ACGAGGGTCTCGACCCTGGACCTCCTGAGGGAACATGGAAAAAGCAGTGCCATGAGTGATACAGTGTTCCTTG
CAAGGGAGGACTCGAAACAGCCTGGAGTTAGATATCTTCTTTTGGCCGGATTGATGGGGAGGAGGGATTAAAAGA
GTCAGGAAGAAGACAGAGCTAATGGATAAATATCATAACATGGCCTTACATGTCTGCTGTCATCAGCCCTGTTCC
TTAAAAGTTCTAGCTGCTTTCTTAAAAATAATCTGAAAATCTTATTGATACTAAAGAGGAGTTAAAGGCACATAA
AGTCTTAACTCTATAATGTTCAATTTAGTTGTTTCAGCTCCAGGGAAATGGAGGTATTGATGTTGAACCTGGTTAG
GGAAGCTGAGCGCCTGTGGCCCTATTACTATCCAGTTGGCCTCTCCCAAATCAACTCAAGTCTTTTATAGAGAA
TCGTATTTTTCTTTTCAAGAAATGCTATGCCTACAGCCATTGAAAAATGAAGCATTCAATGTTGTTACATCTTCCAA
GGATGTCAGATTAGAAAATAGCATCCCACCTCTGGGTATCTGAGTGGCTCTGAAGTTGCAATAAAATAATTTGT
TGT

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FIGURE 4976

MNAARTGYRVFLANSTAACTELAKRITERLGAE LGKSVVYQETNGETRVEIKEFVRGQDIFIIQTIPRDVNTAVM
ELLIMAYALKTACARNIIGVIPYFPYSKQSKMRKRSIVCKLLASMLAKAGLTHIITMDLHQKEIQGFFSFPVDN
LRASPFLQYIQEEIPNYRNAVIVAKSPDAAKRAQSYAERLRLGLAVIHGEAQCTELDMDDGRHSFPMVKNAVH
PGLELPLMMAKEKPPITVVGDVGGRIAIIVDDIIDDVESFVAAAEILKERGAYKIYVMATHGILSAEAPRLIEES
SVDEVVVTNTVPHEVQKLQCPKIKTVDISLILSEAIRRIHNGESMAYLFRNITVDD

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FIGURE 4977A

CGCCTCCCCGCGCCTCGTTGCGCGCCGCTGTGCGCGCCGCGCCCGAGACTCGCGCAGAGCAGTTATGGCGGATC
CCGCAGCCCCCACGCCCCGAGCTCCCGCTCCAGCCCAGGCCCGGCTCCAGCCCCGAGGCAGTCCCGGCCCCAG
CCGCAGCCCCCGTCCCGGCGCGCGCGCCGCTCGGACTCGGCCTCCGGGCGCTCCTCGGACTCCGGCCAGAAG
CCGGCTCGCAGCGCTGCTGTTTTCTCACGACCTGGTGTGCGGCGGTTACCGTGGCTCCGTGCACTTCGGGCTGG
TGCGCCTCATCCACGCGAGGACTCGGACTCGGAGGGCGAGGAGGAGGGCCGCGGGAGCTCGGGGTGCTCCGAGG
CCGGGGGCGCGGGCCACGAGGAGGGCCGGGCCAGCCCCCTGCGCGCGGCTACGTGCGCGTCCAGTGGTACCCGG
AGGGCGTCAAGCAGCATGTGAAGGAGACCAAGCTGAACTAGAGGACCGTTCTGTGGTGCCCCGAGATGTGGTCC
GGCAGATGCGATCCACCGACAGTCAGTGTGGCAGGTGATCGACGTCAACATCGACTGTGCCGTCAAGCTCATCG
GCACCAACTGCATCATCTATCCCGTCAACAGCAAGGACCTGCAGCACATCTGGCCCTTCATGTATGGGGACTACA
TTGCCATGACTGCTGCTGGTGGGAAGGTCTACGACTTGAAGAACCAGATCATCTGAAGCTATCCAACGGCGCCA
GGTGTCTCCATGAACACGGAAGATGGCGCCAAGCTCTACGACGTCTGCCCGCACGTGAGCGACTCGGGTCTCTTCT
TCGATGATTCTATGGCTTCTACCCAGGCCAGGTGCTCATTGGCCCTGCCAAGATCTTCTCCAGCGTCCAGTGGC
TGTCAGGTGTCAAGCCCGTGTCTAGCACCAGAGCAAGTTCGAGTGGTGGTGAAGAGGTGCAGGTGTAGAGT
TGAAAGTTACATGGATTACCAAGAGTTTCTGTCCAGGGGGCACGGACAGCGTCAGCCCCCACCCTCTGTATCA
CCCAGGAAAACCTAGGCAGGGTGAAGCGTCTCGGATGCTTTGACCATGCTCAGCGGCAGCTTGGGGAGCGCTGTC
TGTATGTCTTCCAGCCAAGGTAGAGCCAGCCAAGATTGCCTGGGAATGTCCAGAAAAAACTGCGCCAGGGGG
AGGGCTCTATGGCCAAGAGGTGAAGCGCTGTTGAAGAAGCAGGTGTGCGGATCATGTATGTCTCCAGACA
CCCAGTGTCTCCGGGACCATTCCATGGAAGACCCAGACAAGAAGGGGGAATCCAAAACCAAGAGCGAAGCGGAGT
CTGCCAGCCCTGAGGAGACGCCCCGATGCTCTGCCAGTCCAGTGGAGATGCAGGACGAGGGTGCAGAGGAGCCCCA
CGAGGCAGGAGAGCAGCTGCCCCATTCTGCTAAAAGAAGGCAGAGATGACAGGCTGCACTCGGCAGAGCAGGA
CGCAGATGATGAGGCTGTGATGACACGGACGACACCAGTTCGGTGACCTCCTCTGCCAGCTCCACCCTTCCTC
CCAGAGCGGCAGCGGCACGAGTCGCAAAAAGAGCATCCCTTGTCCATCAAGAACTTAAAGCGCAACACAAAGAG
GAAGAAGAATAAAATCACTCGAGACTTCAAGCCAGGGGACAGGGTGGCAGTGGAGGTGGTGACCACGATGACCTC
AGCCGACGTGATGTGGCAGGATGGCTCCGTGGAATGCAACATCCGCTCCAACGACCTCTTCCCTGGCACCACCTG
ACAACAACGAGTTCTGCCCTGGAGACTTCTGTGGTAGATAAGCGAGTCCAGAGCTGTCCAGACCCTGCTGTCTACG
GTGTGGTACAGTCTGGGGACCACATCGGCCGTACCTGCATGGTGAAGTGGTTCAAGCTGAGGCCGAGTGGGGACG
ACGTGGAGCTGATTGGAGAAGAGGAAGATGTAGTGTTTACGACATTGCTGACCACCCTGACTTTAGGTTCCGTA
CAACTGACATCGTCATCCGCATCGGCAATACTGAGGATGGGGCTCCTCACAAGGAGGATGAGCAGCCATCGGTGG
GCCAGGTGGCCCGTGTGGACGTGACGAGCAAGGTGGAGGTGGTGTGGGCTGACAACTCAAAGACCATCATCCTGC
CCCAGCACTTGTACAACATAGAGTCTGAGATTGAGGAGTCACTACGATTCCGGTAGAAGGCAGCACCAGCGGGC
ATCCTCGGATGAATGGGAAGATGATAGTGACAGCTGGGAGACGGACAATGGGCTGGTGGAGGACGAGCACCCCAA
GATAGAGGAGCCCCCATCCACCCCTGGAGCAGCCGCTGGCCCTGAGGACAAGGGAGTGGTGATCAGTGAAGAG
GCAGCCACAGCCGTAXCXTAGGGGGCTGTGGCCATGGCTGCCCCCATGGCCGGGCTGATGGAGAAGGCTGGCAA
GGACGGGCCACCCAAGAGCTTCCGGGAGTTGAAAGAGGCCATCAAGATCCTGGAGAGCCTCAAGAACATGACTGT
GGAGCAGTGTGACGGGCTCGCCACCTCTCCGACTGTGGAGCCTGAGAAGCCAACTCGGGAGAAGAAGTTTCT
GGATGACATCAAGAAGCTACAGGAAAACCTCAAGAAGACCCTGGACAATGTGGCCATTGTAGAGGAGGAGAAGAT
GGAAGCAGTGCCCGACGTAGAGCGCAAGGAGGACAAGCCCGAGGGCGAGTCACCTGTGAAGGCTGAGTGGCCAG
CGAAACCCCGGTGCTGTGCCAGCAGTGTGGCGGCAAGCTGGCGTCACCTTACCAGCGCCAAGGGCGAGGTCTTC
TCCGTACTGGAGTTTGACCCCTCAAATCATTCTTTTAAAGAAATTGAGTTCCAGCCTCCAGAAGCCAAGAAGTTC
TTCAGCACAGTGCAGGAAGGAGATGGCGCTGCTGGCTACCTCACTGCCTGAGGGCATCATGGTCAAGACTTTTGAA
GATAGAATGGACCTCTTCTCAGCTCTCATCAAGGGCCCCACTCGAACCCCTACGAGGATGGCCTCTACTTGT
GACATCCAGCTCCCCAACATCTACCCAGCCGTGCCCCCCTCTCTGCTACCTCTCCCAATGCAGTGGCCGCTG
AACCCCAACCTGTATGACAATGGGAAGGTGTGTGTCAGCCTCCTGGGCACCTGGATTGGAAAGGGGACAGAGAG
TGGACAAGCAAGTCCAGCCTTCTCCAGGTGCTCATCTCCATCCAAGGTCTGATCCTGGTAAATGAACCATACTAC
AACGAAGCCGGCTTCGACAGTGACCGAGGCCTGCAGGAAGGCTATGAAAACAGTCGCTGTTACAATGAGATGGCG
CTGATCCGCGTGGTGCAGTCCATGACCCAGCTGGTGCGGCGGGCCCCCGAGGACTTTGAGCAGGAGATCAGGCAA
CACTTTAGCACTGGTGGCTGGCGGCTGGTGAACCGTATCGAGTCCCTGGCTGGAAACCCATGCCCTGTGGAGAAG
GCCCAGGCACTGCCCAACGGGTGCCCAAGGCCAGCAGCTCGCCAGACGCCCCAGCTGTAGCCGAGCTGTGAGCAG

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FIGURE 4977B

TCCGGCCAACAAGAACCCTGAGGATGGAGGGCCAGCCCCAGGAGAGGCCTCCCAGGGCTCAGACTCAGAGGGCGGT
GCCAGGGCCTGGCCTCAGCTAGCAGGGACCACACAGACCAGACTTCGGAGACCGCACCAGACGCATCGGTGCCAC
CCAGTGTGAAACCAAGAAGCGGAGAAAGAGCTACCGGAGCTTCTTACCTGAGAAGAGTGGCTACCCTGACATCG
GTTCCCCCTCTTCCCACTTTCCAAGGGTTTCATCAAGAGCATCCGGGGTGTCTGACGCAGTTCCGGGCTGCCCT
GCTAGAGGCAGGCATGCGGXAGTGACACAGAGGACAAGTAGCTGCCAGGCACAGAGGAAAGAGCATCACCGTGGGA
GAGGCCAGCCGCCGCTGCTCACTCCCCCGGAATCACCCCTCTTCCCATGCCCTCTGTCCCCACTGCAAACC
CACTGCCCTCTTCTCCCAAGGTGAGTTTGATGCTGAAGTGCAAGAAGTGTGTGAGATGCTGCCGTTTCTATTT
TGAAGCGAGCTTTCAACAGGCGGGTCCCTGTGGCAAAGAAAATCGGAACCTGTTGCCGATTTTCCATTGTCA
CCCCAGCAGAATGTCCGGCACTTGCTCCCTTGCTGCCCTTCTCAGGTCAGAGGCGGGTGTTCAGGGCCTGCCG
CGGGCTCTCTGGGCCGGTTCCCTGCAGACCCGCAGACGAGCACATGTGCCTTGCATGAAGTGTGGGTTGCGCCA
ACAATTTCCCTGGTCCCTTTCAACCTGTTTAGTTCAACTCAAGCCTCCCTGTGTCCAGACCCCTCCTGCTGCCAC
CACCACCCAGGTCCCTCCCTAGTCCTCCAGCGTCAACACTATCCCTTGGGGAGTTGTAGCTGCTGTCACTGACTCC
CGGCTATACATGGCCTGTGACACGTTATAGCCCTCAGGCCTGTTGAACCTGCTCTCTAAGAGAGGTTGGGACC
AGGCTAGGTTCCGGGTGACGCCCAGGAGAGGTGGTGGCCTTCACACATGCACATGGAGTTGAGGACCAGGGAGCT
GCAGGGAAAGCAACAGCTATAGGTGCCTTGCTCTTCTGTGCGGAGGCTGCTGGGGGCAAGAGCAGCTGCACAAGGC
CAGGGCAAGTGCTAGGGCCCCCTCCCCATCACATGGTCACACTGGGACAGGCGTGCAGCTCACTGAACCTCAAGC
GAGCCAGCCCTCTCTTGGACTAGAAGGCCTACTGTGAGCCCTTCGCTTACAACTGCAGGCTCAATCCGAAGGGG
ACGGCCGGCGGGGGCTCTCCTAGTGCCCAGAGACAGGCCAGAGGTTTACAAGTTTTCTAAGCTTTTGATAATGT
GAAGCTCCAGGCCGAGAGGATGCTGTTGAGCACATTGCAGCTATGTAATTTTGGTGTATGTATGTAATATTTAA
GGTTGGAAAAAACTCAAAAGCAAAGATATTAACCTCTTATTAGAAAAAAGACAAAAAAAGCCAAAGCATGA
TGCGTCTTGTGAGCCTTAAGTGGGCTCCACACCTGTGCTGTGCTGTGACCGCCAGCCAGCAGAGCTGCGGGAGG
ATGGAGCCGGACCACACACCGTGGCATTGGAACCGAGTCGGTATCTTGTGTTGAGAAACACCCGGAGTACTGGT
GGGGCTGTGCTTCCCAAGTGCATTGTACATGTGGAGATGTGAATGCCTACTGCTTACGATATCTGTATAAAGTGCT
GTGTGATTAACTTTTTTTTACTTGC

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FIGURE 4978

CAGGACGCACATGCAGAACATCAAGGACATTTGGGTGACGCTCTCCTTCGTGGTGTACCTTGTGAAGCGCCTCAA
CGAGGGCAGCAGCGCCATGGCCAACGGCATGGAGGAGAAGGAGCCAGAAGCCCCGGAGATGTAGACGCCACCCTG
CCCACCCCCGGGATCCTGCCCCAAGTCATTTCCGTCCCCCCCCAGGCCCTCCCACCACCCCATTTTATTTATA
TGATTTTCTCCATTTGTATCATTCCCCACCCCTTCGACATGCTGCCAGGAAACAAGGGAAGGGGCTCCCTCCG
AGTGAGTCAGTGATGAGGCCGCGGCTCCCCGAGGTTGTGGGGAGGCTGCACTGGAGCCACAGGCAGGGGTGAGA
GCACCCACTGAATTGACATGACCTCTGTCCCCAGGCCTGGCTCCCCGAGGGCTCAGAAGAGCAGCTTCGGTGTG
CAGATCATCCGTCTGTGTGGGGTTCTCAGTGCCGAGGCCTTGGGGTGGGGGCCAGGCCCTCGCACTTGCAGAGGA
GCCCAGTGGGCTGCACGCTCCCCCTCCATCCCCATCGGCCCTGTCCCCTGGAGTGTGTGAGAGCCAGGGGAGAAT
GCAGCCCACCAGGAGCACCTGGACCCCCCTGCCCGCCACATGGTGTGGCCATCACTCAGCCCCCTACCCCTGCCCTG
CTCCTAAGGGTAGAAAACCTCCAGGGTCCCCTGCCACCGACTGCCCAGCCACTCCAAGCCCCCTGGCAGCTGCCCC
TCCTGGAGCAGAAAAGTGCCCTTTATCTCAGCCATCCGCAGACTGCTTGGCCAGATGCGGGGACAGGCTGGAATGAG
GGAGGCGTCTTCATCTCCCTGCCATCCCCCTCTCAGCCACCCCCGCCCCACCAGGGCTGCAGGTGCTGTGATG
CGCTGGGATCTGATTGAGGATAAAAAAGGAAGGAGAGATGACCCCTACCCCTCATCCCCAGTTTTGAAAAGGTC
TAAGCAAGTGAGTCTGGTGGAGGAGCTGAGGGAGGGAGCCATGGAAGGTGCCAGAAGGAAGGTTGGCGGGGGCAC
GTGTGGGCGTGGCTTGGGCTGGTCAGAGTGGCGTGAGCTGCCCGGCGCTGCCCTGCCCAAGTGACCAGGGAAG
TGTGTGTGTGTCATGTGTATGCGTGTCCGTCTGTCTGTCTAGTGTCTGGGTTTGGCCCAAGACTGGGCTGTAGT
TACATTAATGCCCCAGCCAGCCACCCCTGCCACTCACCTTCCTGGCCCAGGCCTTGCTGACTCTCTGAGCTGGGG
AGGTGGGAGGCCAGGCGAGCCTGACTCTGTTGATCTACCCGTGCCCTGGGCCCCCTCCCCTCAGAGCCCATGTTAAC
GAACCCCTAGAAAAGGAGAGAGAACGGGCGTCAGGGGTGCACAGTCCACAGCTGAAGAGCAAGGTTTCGTGGCAGCAC
GGCCCGGCCCCCTCACCTCTGTCCCCACGAGGGGACCCATGGGGGCTGTCTTTGCAGGGCACAGATGACCAAAGT
CCCTTCCTGCTTCCTGTTACCTGTCTTGCTCCTGGGGAGAAAGAGGGGCTGATGAGACTCCACTCAGGTGCACA
CATCACCAGGTGCATCTGCAGGCACCGGGCTGGCTGCTGCAGCCAGGAGAAGGTGAGCGAGAAGGAGTGTATGA
GTGTGAGTGTGTGTCATGGAAGTTGGGGCACTGGGCGTCTGACTCCCTCCCCACCCAAGAGAGGAAGGACCCCT
CACCACCCCCACTGGTGAGACAGTTTACTTTGCCAACTGCCATGTTTTTGCCAAAACCAAGATTTTGAAGGAAA
TGAGTGGCCAGCGCCAGGGCCAGGCCATGTGGCCTGCCAGCCTCAATGTCACTTGGTGGCGGGGTGGGGTGGG
GGTGGGCAGCAGCATCCCAGCCTTGAGATGCTTCACTTTCCTTCTCTGTACCAGACTTTGAAAAATTGTTCTGT
TCATCAGGCTCTGTTCTCAATGGCCTTTTGCTACGTGCCTCCCGAGAAATTTGTCTTTTTGTATAAATGACAAA
GTGTTGAAAATGTATTTCTGAAATAAATGTTTCAAATGCAGAAACCC

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FIGURE 4979

MGSFRTSSALKRSFEVEEVETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDSLSQSPKASLRR
VELSGPKAAEPVSRTELSIDISSKQVENAGAIGPSRFGKRAEVLGHKTPEPAPRTEITIVKPQESAHRMEP
PASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPAQTLENSEPAPVSQLSRLEPKPQPPVAEATPRSQEAT
EAAPSCVGMADTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRRKAMKQGFEFNIMVVGQSLGKSTLINT
LFKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGVRMKLTVIDTPGFGDHINNENCWQPIIMKFINDQYEKYLQ
EEVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFMKRLSKVVNIVPVIKADTLTLEERVHFKQRITADLLS
NGIDVYPQKEFDEDEDSEDLVNEKFREMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTHCEFAYLRDLLIR
THMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEEKEPEAPEM

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FIGURE 4980

CAGATGTAGTTTTTTCCGCACGTGCACGCCTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCATATT
AGGGGCAGCAGTGCCTGCGGCAGCATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC
CAGCGGCTTAAGCCATGGCGCTTCCCACGGCATTGAGCAGCAGCATTGCTGTAAACCGACAAAGACACCTTCGAAT
TAAGCACATTACTCGATTCCAGCAAAGCACCGCAACATGACCGAAATGAGCTTCTTGAGCAACGAGGTGTTGGTG
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCATAGGTCTCTTAGATGACTACGTG
GAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAGGCTAAGGCGGGCTCCTCCGAATGGCTGACT
GTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCCTTCTCTGGGACACATTGGATGTTGGAGAAA
ATGGATTTGAAGGAGTTCGACTTTGGTGCCCTGTTGGGTATAGATGACCTGGAAACCATGCCAGATGACCTTTTG
ACCACGTTGGATGACACTTGTAATCTCTTTGCCCCCTAGTCCAGGAGACTAATAAGGTGCCCCCCCAGATGGTG
AACCCAATTGGCCATCTCCAGAAAGTTTAAACAAAACCCGACCAGGTTGCCCCCTTACCTTCTTGCAACTTCTT
CCCCCTTTCCCCAGGGGTCCAGTCTCCACTCCAGATCATTCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATC
ACTGAAGAAGATAGGAAGCCGGACTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACC
CCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCTATCTGGGGTCTCCTCAGCATAGCCCCCTCTACC
AGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCCACCCCAAACCTTACGATCCT
CCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTGGATAAGAAGCTGAAAAAAATGGAGCAAAAC
AAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAGGAGGCTCTCACTGGCGAGTGCAAAGAGCTG
GAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCAGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAGATTTGATA
GAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGGTCCCCTAGTTGAGGGTAGGTGAGGAGTGCAACGTGCTTGT
ACATAGAGTGTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG

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FIGURE 4981

MTEMSFLSNEVLVGDLMSPPDQSGLGAEESIGLLDDYVEVAKHFKPHGFSSDKAKAGSSEWLTVDGLVSPSNNK
EDAFSGTHWMLEKMDLKEFDGALLGIDDLETMPDDLTTLDDTCNLFAPLVQETNKVPPQMVNPIGHLPESLTK
PDQVAPFTFLQLPLSPGVQSSTPDHSFSLELGSEVDITEEDRKPDSTAYVAMIPQCIKEEDTPSDNDSGICMSP
ESYLGSPQHSPSTRGSPNRSPLSPGVLCGSAHPKPYDPPGEKMVAACKVGEKLDKKLKKMEQNKTAATRYRQKKR
AEQEALTGECKELEKKNEALKERADSLAKEIQYLDLIEVRKARGKKRVP

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FIGURE 4982

CGCTAGCCTGCGGAGCCCCTCCGTGCTGTTCTGCGGCAAGGCCTTTCCAGTGTCACGCGGAAGGCAACTGC
CTGAGAGGCGCGGCGTCGCACCGCCAGAGCTGAGGAAGCCGGCGCCAGTTCGCGGGGCTCCGGGCCGCACTCA
GAGCTATGAGCTACGGCCGCCCCCTCCCGATGTGGAGGGTATGACCTCCCTCAAGGTGGACAACCTGACCTACC
GCACCTCGCCGACACGCTGAGGCGCGTCTTCGAGAAGTACGGGCGCGTCGGCGACGTGTACATCCCGCGGGATC
GCTACACCAAGGAGTCCCGCGGCTTCGCCTTCGTTTCGCTTTTACGACAAGCGCGACGCTGAGGACGCTATGGATG
CCATGGACGGGGCCGTGCTGGACGGCCGCGAGCTGCGGGTGCAAATGGCGCGCTACGGCCGCCCGGACTCAC
ACCACAGCCGCCGGGACCGCCACCCCGCAGGTACGGGGGCGGTGGCTACGGACGCCGGAGCCGAGCCCTAGGC
GGCGTCGCGCGAGCCGATCCCGGAGTCGGAGCCGTTCCAGGTCTCGCAGCCGATCTCGCTACAGCCGCTCGAAGT
CTCGGTCCCGCACTCGTTCTCGATCTCGGTGACCTCCAAGTCCAGATCCGCACGAAGGTCCAAGTCCAAGTCCT
CGTCGGTCTCCAGATCTCGTTCGCGGTCCAGGTCCCGGTCTCGGTCCAGGAGTCTCCCCAGTGTCCAAGAGGG
AATCCAAATCCAGGTGCGGATCGAAGAGTCCCCCAAGTCTCCTGAAGAGGAAGGAGCGGTGTCTCTTAAGAAA
ATGATGTATCGGCAAGCAGTGTAAACGGAGGACTTGGGGAAAAAGGACCACATAGTCCATCGAAGAAGAGTCCTT
GGAACAAGCAACTGGCTATTGAAAAGGTTATTTTGTAACATTTGTCTAACTTTTACTTGTTTAAGCTTTGCCTC
AGTTGGCAAACCTTCATTTTATGTGCCATTTTGTGTCTGTTATTCAAATTTCTTGTAAATTTAGTGAGGTGAACGAC
TTCAGATTTTCATTATTGGATTGGATATTTGAGGTAAAATTTCAATTTGTTATATAGTGTGACTTTTTTGT
GAAATTAACAGATTGGTAACCTAATTTGTGGCTCCTGACTTTTAAGGAAAACGTGTGCAGCCATTACACACAG
CCTAAAGCTGTCAAGAGATTGACTCGGCATTGCCTTCATTCTTAAAATTAAAAACCTACAAAAGTTGGTGTA
TTTGTATATGTTATTTACCTTCAGATCTAAATGGTAATCTGAACCCAAATTTGTATAAAGACTTTTCAGGTGAAA
AGACTTGATTTTTTGAAGGATTGTTTATCAACACAATTCTAATCTCTTCTCTTATGTATTTTTGTGCACTAGG
CGCAGTTGTGTAGCAGTTGAGTAATGCTGGTTAGCTGTTAAGGTGGCGTGTGTCAGTGCAGAGTGCTTGGCTGTT
TCCTGTTTTCTCCCGATTGCTCCTGTGTAAAGATGCCTTGTCGTGCAGAAACAAATGGCTGTCCAGTTTATTAA
ATGCCTGACAACCTGCACTTCCAGTCACCGGGCCTTGCAATATAAATAACGGAGCATACAGTGAGCACATCTAGCT
GATGATAAATACACCTTTTTTCCCTCTTCCCTTAAAAATGGTAAATCTGATCATATCTACATGTATGAACCTTA
ACATGGAAAATGTTAAGGAAGCAAATGGTTGTAACCTTTGTAAGTACTTATAACATGGTGTATCTTTTTGCTTATG
AATATTCTGTATTATAACCATGTTTCTGTAGTTAATTAACATTTTCTTGGTGTTAGCTTT

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FIGURE 4983

MSYGRPPPDVEGMTSLKVDNLTYRTSPDTLRRVFEKYGRVGDVYIPDRYTKESRGFAFVRFHDKRDAEDAMDAM
DGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRRYGGGYGRRSRSPRRRRRSRSRSRSRSRSRSRSRYRSKSR
SRTRSRSRSTSKRSARRSKSKSSSVSRSRSRSRSRSRSPPPVSKRESKRSRSKSPPKSPEEEGAVSS

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FIGURE 4984

CTTGGA CT TGGAC TTCTG TCGGATCTG GACTTGGAGGTCGACCGAGATCGAGAACGAGTGCGGGACCGAGACTT
CGAGCGGCTGTAGCGAGATCGGCTGCGAGACCTGGAACGGCTCCGACTCCGGGATCGGCTGCGGCGACGCCGCCT
AGGGCTGCGGGCGGGACGAGCAAGCACAGCGGGGTTAATTCAGGCAGCGGGCCGGCCCCCGCGCGXCTXC
CCGCCCAGGCCGCCATTATCTCGCCGCCAGACGCCATTTCAGTCGCGAGGCGGGGTCTCCGCCCCGCGCCG
CCCACACCCCGGCCACTCCCGGTGCGAGACGGCGGAAGCTCGCGGGGTGGCCGGAGGGTCGCGAGACGCGGCGT
GCACCCCGCCCCXGTXCCGGGCCCCGACCACGTGCTTCGCGCGGACCTTTGTGAGGTGCGCCGGGCTCCCG
CGCGCCCCGCCCCGCTCCCGGCTCCCTCAGCCCCGTTTACCTGCGGCTCCGGCGTCCGTAGCCACCGCCCC
GTACCTGCGGGGTGGCGGTCCCCGGCGGCTGTGGTGTGAGTCCGGGGGGCGGCCGTAGCGCGCCATTGACCCG
CAGCTCGCGGCCGTCCAGCACGGCCCCGTCCATGGCATCCATAGCGTCTCAGCGTCGCGCTTGTCTGAAAGCG
AACGAAGCGAAGCCGCGGGA CTCTTGGTGTAGCGATCCCGCGGATGTACACGTGCGCGACGCGCCCGTACTT
CTCGAAGACGCGCTCAGCGTGTGCGGCGAGGTGCGGTAGGTAGGTTGTCCACCTTGAGGGAGGTACATACCCTC
CACATCGGGAGGGGGGCGGCCGTAGCTCATAGCTCTGAGTGGCGGCCCGAGCCCCGGAAGTGGCGCGGCTTC
CTCAGCTCTGGGCGGTGCGACGCCGCGCTCTCAGGCAGTTGCCTTCCGCGTGGGGACACTGGGAAAGCGCTTGC
CGCAGAACAGCACGGACGGGCTCCGAGGCTAGCGCACCTGAGTAACAAGTGGGCGGGCAGCCGGCTCTGCGCC
CGTTTATATCGCTCCTCACAAAATGGCGCCCGCGCCACCCGAAATGAAACCTTCTGATTGGCCACCGCGCCCC
GCTTCGTAAACGACCTGCCGCGCCCCGCCCCCTACCCGAAGCGCTGCGCACAGCCGGCGGGCGGGCCAAAA
GCGCGGAGTCACGGCTGGAGGGAGGGGAGCGGAATTAGCGGGCAGTTGGAAAGCCCGCAAACGCTTTTTCCGC
CTGGGAGGCCGACGATCGCGATTGGGCAGGAGXGXAAGAGGAGGTGCTCCCATCTGGGCCCCACCTTTTTTT
CATGCCAATACTCCAAGTTCACGCCCCTTTTTTGCTCAGCCGTCAGCCCCGTCTCCGTCTGAAGAGTGCTTCTGC
CCTCATTGCTCTCTCCCTGTGACCCGGCCCCCTCAGACTCCGCTGCGTCTCTCTCGGCCCGTCCAGCCGTTT
CTGACTGCTCTTCGCCGAGTCCGCTTCCCAACCCCTTTCGCCAGAGCCGAGAGCTCCGTGCGCTCTGCGTCC
TGGCGGTGGGGACTCCCGCCGAGCGCTTGCAGTGCAGGTACCCGGGACTACGTTTCCXAXGCGXGCGCC
GAGCGGCCGGCGCGCGGCTGCGGTGAGGTGACCCGGTGCCTGGCCGAGTGAGTCAGGCTGGGAGGGCGGGG
CGCGCCGGCTGCTGCGGCTGGCACTTGGCCCTTAAATCCCTTCGTGGGCCCCCTCAACCTGGAGCGGATAAATC
TTGGCGCTTCTXCCGGGGTTGTGCTCTTCCGTACTCGGATCGCTTCTTAGGAGTATCCTAACTGCCGCTGGGGA
GAACTTCGCCCTAAACCTGGGGTTCCGATCCAGGAAGTGAAGTTGACAGCTTGGCTGCCTGGCTCCTACATCTG
CCTTCTCCACTCACCATCTCATTCTTTCTCCAGGATTGTGAGTGGCTTCGCCCCGAGGAGAGCTGACTGCCCTG
GGCTGCTGCTCCGGCAGAGCTGAGCCAAAATGTCCCGGAATCTAAAAAGCTTTTCAACATCATTATTTAGGA
GTTGCCTTTATGTTTATGTTCACTGCCTTCAAACCTTGTGG

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FIGURE 4985

CCGCCAGATTGGAATCGCGGGACCCGTTGGCAGAGGTGGCGGGCGGGCATGGGTGCCCCGACGTTGCCCCCTGC
CTGGCAGCCCTTTCTCAAGGACCACCGCATCTCTACATTCAAGAACTGGCCCTTCTTGGAGGGCTGCGCCTGCAC
CCCGGAGCGGATGGCCGAGGCTGGCTTCATCCACTGCCCCACTGAGAACGAGCCAGACTTGGCCCACTGTTTCTT
CTGCTTCAAGGAGCTGGAAGGCTGGGAGCCAGATGACGACCCCATAGAGGAACATAAAAAGCATTTCGTCCGGTTG
CGCTTTCTTTCTGTCAAGAAGCAGTTTGAAGAATTAACCCCTTGGTGAATTTTTGAAACTGGACAGAGAAAGAGC
CAAGAACAAAATTGCAAAGGAAACCAACAATAAGAAGAAAGAAATTTGAGGAACTGCGAAGAAAGTGCGCCGTGC
CATCGAGCAGCTGGCTGCCATGGATTGAGGCCCTCTGGCCGGAGCTGCCTGGTCCCAGAGTGGCTGCACCACTTCC
AGGGTTTTATTCCCTGGTGCCACCAGCCTTCTGTGGGCCCCCTTAGCAATGTCTTAGGAAAGGAGATCAACATTTT
CAAATTAGATGTTTCAACTGTGCTCCTGTTTTGTCTTGAAAGTGGCACCAGAGGTGCTTCTGCCTGTGCAGCGGG
TGCTGCTGGTAACAGTGGCTGCTTCTCTCTCTCTCTCTTTTTTGGGGGCTCATTTTTGCTGTTTTGATTCCCG
GGCTTACCAGGTGAGAAGTGAGGGAGGAAGAAGGCAGTGTCCCTTTTGCTAGAGCTGACAGCTTTGTTGCGGTGG
GCAGAGCCTTCCACAGTGAATGTGTCTGGACCTCATGTTGTTGAGGCTGTCACAGTCTGAGTGTGGACTTGGCA
GGTGCCTGTTGAATCTGAGCTGCAGGTTCTTATCTGTACACCTGTGCCTCCTCAGAGGACAGTTTTTTTTGTTG
TTGTGTTTTTTTTGTTTTTTTTTTTTTGGTAGATGCATGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCCTGG
CTCCTCTACTGTTTAACAACATGGCTTTCTTATTTTGTGTTGAATTGTTAATTCACAGAATAGCACAAACTACAAT
TAAACTAAGCACAAAGCCATTCTAAGTCATTGGGGAAACGGGGTGAACCTCAGGTGGATGAGGAGACAGAATAG
AGTGATAGGAAGCGTCTGGCAGATACTCTTTTGCCACTGCTGTGTGATTAGACAGGCCCACTGAGCCGCGGGGC
ACATGCTGGCCGCTCCTCCCTCAGAAAAGGCAGTGGCCTAAATCCTTTTTAAATGACTTGGCTCGATGCTGTGG
GGGACTGGCTGGCTGCTGCAGGCCGTGTGTCTGTACGCCAACCTTCACATCTGTCACGTTCTCCACACGGGGG
AGAGACGCAGTCCGCCCAGGTCCCCGCTTTCTTTGGAGGCAGCAGCTCCCGCAGGGCTGAAGTCTGGCGTAAGAT
GATGGATTTGATTGCCCCCTCCTCCTGTCTAGAGCTGCAGGGTGGATTGTTACAGCTTCGCTGGAACCTCTGG
AGGTCATCTCGGCTGTTCTGAGAAATAAAAAGCCTGTCATTTT

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FIGURE 4986

MGAPTLPAPAWQPFLKDHRISTFKNWPFLGCACTPERMAEAGFIHCPTENEPDLAQCFKKELEGWEPDDDP
IE
EHKKHSSGCAFLSVKKQFEELTLGEFLKLDREKAKNKIAKETNNKKKEFEETAKKVRRAIEQLAAMD

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FIGURE 4987

GCGGCGGCGGCAGCGGCGGCGACGGCGACATGGAGAGCGGGGCCTACGGCGCGGCCAAGGCGGGCGGCTCCTTCG
ACCTGCGGCGCTTCCTGACGCAGCCGCAGGTGGTGGCGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTTC
CCTGCATCTATGGTGAGGGCTACAGCAATGCCACGAGTCTAAGCAGATGTACTGCGTGTTCAACCGCAACGAGG
ATGCCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCCTGGCCTCGGCCTTCTTCTTGGTGGTCGACGCGT
ATTTCCCCCAGATCAGCAACGCCACTGACCGCAAGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGA
CCTTCCTGTGXTGTTTGTGGTTTCTGCTTCCTCACCACCAGTGGGCAGTCACCAACCCGAAGGACGTGCTGGTG
GGGGCCGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTTCCATCTTCTCCTGGGTAGGATGGCCAGGGGCC
GGTTCTTGGGTCAAGGXGTGTGGAAGGGGGGGXAXCCCCCAXCCCACCTGTACCCTGCTGTGCTCCCCCTGCAGG
GTGTGCTGGCCTCCCTGGCCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACGTTGACCCCA
CTCCGGACCCAXACACTGCCTACGCCTCCTACCCAGGTGCATCTGTGGACAACCTACCAACAGCCACCCCTTCACC
CAGAACGCGGAGACCACCGAGGGCTACCAGCCGCCCCCTGTGTACTGAGCGGCGGTTAGCGTGGGAAGGGGGACA
GAGAGGGCCCTCCCXCTCTGCCCTGGACTTTCCCATGAGCCTCCTGGAAGTACC

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FIGURE 4988

CTTACTGCGGGACGGCCTTGGAGAGTACTCGGGTTTCGTGAACTTCCCGGAGGCGCAATGAGCTGCATTAACTGC
CCACTGTGCTGCCTGGCTCCCCAGCAAGACCCGGGGGCAGATCCAGGTGATTCTCGGGCCGATGTTCTCAGGAA
AAAGCACAGAGTTGATGAGACGCGTCCGTTCGCTTCCAGATTXGCTCAGTACAAGTGCTGGTGATCAAGTATGCC
AAAGACACTCGCTACAGCAGCAGXCTTCTGCACACATGACCGGAACACCATGGAGGCACTGCCCGCTGCCTGCT
CCGAGACGTGGCCCAGGAGGCCCTGGGCGTGGCTGTATAGGCATCGACGAGGGGCAGTTTTTCCCTGACATCGT
GGAGTTCTGCGAGGCCATGGCCAACGCCGGAAGACCGTAATTGTGGCTGCACTGGATGGGACCTTCCAGAGGAA
GCCATTTGGGGCCATCCTGAACCTGGTGCCGCTGGCCGAGAGCGTGGTGAAGCTGACGGCGGTGTGCATGGAGTG
CTTCCGGGAAGCCGCCTATACCAAGAGGCTCGGCACAGAGAAGGAGGTGAGGTGATTGGGGGAGCAGACAAGTA
CCACTCCGTGTGTCGGCTCTGCTACTTCAAGAAGGCCTCAGGCCAGCCTGCCGGGCCGACAACAAAGAGAACTG
CCCAGTGCCAGGXAAAGCCAGGGGAAGCCGTGGCTGCCAGGAAGCTCTTTGCCCCACAGCAGATTCTGCAATGCA
GCCCTGCCAACTGAGGGACCTGCGAGGGCCGCCGCTCCCTTCCCTGCCACTGCCGCCTACTGGACGCTGCCCTGC
ATGCTGCCCCAGCCACTCCAGGAGGAAGTCGGGAGGCGTXGGAGGGTGACCACACCTTGGCCTTXCTGGGAACTCT
CCTTTGTGTGGCTGCCCCACCTGCCGCATGCTCCCTCCTCTCCTACCCACTGGTCTGCTTAAAGCTTCCCTCTCA
GCTGCTGGGACGATCGCCCAGGCTGGAGCTGGCCCCGCTTGGTGGCCTGGGATCTGGCACACTCCCTCTCCTTGG
GGTGAGGGACAGAGCCCCACGCTGTTGACATCAGCCTGCTTCTTCCCCTCTGCGGCTTTCAGTGTGAGTTTCTG
TTCTCCCTGGGAAGCCTGTGCCAGCACCTTTGAGCCTTGGCCCACACTGAGGCTTAGGCCTCTCTGCCTGGGATG
GGCTCCCACCCCTCCCTGAGGATGGCCTGGATTACGCCCTCTTGTTTCCTTTTGGGCTCAAAGCCCTTCTTACC
TCTGGTGATGGTTTCCACAGGXAAACAGCATCTTTCACCAAGATGGGTGGCACCAACCTTGCTGGGACTTGGA
TCCCAGGGGCTTATCTCTTCAAGTGTGGAGAGGGCAGGGTCCACGCCTCTGCTGTAGCTTATGAAATTAATAAT
T

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FIGURE 4989

AATCGAAAGTAGACTCTTTTCTGAAGCATTTCTGGGATCAGCCTGACCACGCTCCATACTGGGAGAGGCTTCTG
GGTCAAAGGACCAGTCTGCAGAGGGATCCTGTGGCTGGAAGCGAGGAGGCTCCACACGGCCGTTGCAGCTACCGC
AGCCAGGATCTGGGCATCCAGGCACGGCCATGACCCCTCCGAGGCTCTTCTGGGTGTGGCTGCTGGTTGCAGGAA
CCCAAGGCGTGAACGATGGTGACATGCGGCTGGCCGATGGGGGCGCCACCAACCAGGGCCGCGTGAGATCTTCT
ACAGAGGCCAGTGGGGCACTGTGTGTGACAACCTGTGGGACCTGACTGATGCCAGCGTCGTCTGCCGGGCCCTGG
GCTTCGAGAACGCCACCCAGGCTCTGGGCAGAGCTGCCTTCGGGCAAGGATCAGGCCCATCATGCTGGACGAGG
TCCAGTGCACGGGAACCGAGGCCTCACTGGCCGACTGCAAGTCCCTGGGCTGGCTGAAGAGCAACTGCAGGCACG
AGAGAGACGCTGGTGTGGTCTGCACCAATGAAACCAGGAGCACCCACACCCTGGACCTCTCCAGGGAGCTCTCGG
AGGCCCTTGGCCAGATCTTTGACAGCCAGCGGGGCTGCGACCTGTCCATCAGCGTGAATGTGCAGGGCGAGGACG
CCCTGGGCTTCTGTGGCCACACGGTCATCTGACTGCCAACCTGGAGGCCAGGCCCTGTGGAAGGAGCCGGGCA
GCAATGTACCATGAGTGTGGATGCTGAGTGTGTGCCCATGGTCAGGGACCTTCTCAGGTACTTCTACTCCCGAA
GGATTGACATCACCTGTGCTCAGTCAAGTGCTTCCACAAGCTGGCCTCTGCCTATGGGGCCAGGCAGCTGCAGG
GCTATGCGCAAGCCTCTTTGCCATCCTCTCCCCAGGACCCCTCGTTCCAGATGCCCCCTGGACCTGTATGCCT
ATGCAGTGGCCACAGGGGACGCCCTGCTGGAGAAGCTCTGCCTACAGTTCCTGGCCTGGAACCTCGAGGCCTTGA
CGCAGGCCGAGGCCTGGCCAGTGTCCCCACAGACCTGCTCCAAGTCTGCTGCCCAGGAGCGACCTGGCGGTGC
CCAGCGAGCTGGCCCTACTGAAGGCCGTGGACACCTGGAGCTGGGGGGAGCGTGCCTCCCATGAGGAGGTGGAGG
GCTTGGTGGAGAAGATCCGCTTCCCCATGATGCTCCCTGAGGAGCTCTTTGAGCTGCAGTTCAACCTGTCCCTGT
ACTGGAGCCACGAGGCCCTGTTCAGAAGAAGACTCTGCAGGCCCTGGAATCCACACTGTGCCCTTCCAGTTGC
TGGCCCGGTACAAAGGCCCTGAACCTCACCGAGGATACCTACAAGCCCCGGATTACACCTCGCCACCTGGAGTG
CCTTTGTGACAGACAGTTCTGGAGTGCACGGAAGTCACAAGTGGTCTATCAGTCCAGACGGGGGCTTTGGTCA
AATATTCTTCTGATTACTTCCAAGCCCCCTCTGACTACAGATACTACCCCTACCAGTCTTCCAGACTCCACAAC
ACCCAGCTTCTCTTCCAGGACAAGAGGGTGTCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGA
ACTACGGCTTCTCTGCTCCTCGGACGAGCTCCCTGTCTGGGCTCACCAGTCTGGCGGCTCAGATCGCACCA
TTGCCTACGAAAACAAAGCCCTGATGCTCTGCGAAGGGCTCTTCTGTGGCAGACGTCACCGATTTGAGGGCTGGA
AGGCTGCGATTCCAGTGCCTGGACACCAACAGCTCGAAGAGCACCTCCTCCTTCCCCTGCCGGCAGGGCACT
TCAACGGCTTCCGCACGGTCATCCGCCCTTCTACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCA
AGGGTGGTGAGAACCGGAGAACCCAGGACGCCCTCACTGCAGGCTCCCCTCCTCGGCTTCTTCTCTCTGCAA
TGACCTTCAACAACCGGCCACCAGATGTCGCCCTACTACCTGAGCGCTCAGCTTCAAGAAATTACTGGAAGGCT
TCCACTAGGGTCCACCAGGAGTTCTCCACCACCTCACCAGTTCCAGGTGGTAAGCACCAGGACGCCCTCGAGG
TTGCTCTGGGATCCCCCACAGCCCCTGGTCAGTCTGCCCTTGTCACTGGTCTGAGGTCAATAAAATTACATTGA
GGTTCCTA

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FIGURE 4990

MTPPRLFWVWLLVAGTQGVNDGDMRLADGGATNQGRVEIFYRGQWGTVCNLDLTDASVVCRALGFENATQALG
RAAFGQSGPIMLDEVQCTGTGTEASLADCKSLGWLKSNCRHERDAGVVCTNETRSTHTLDSRELSEALGQIFDSQ
RGCDLSISVNVQGEDALGFCGHTVILTANLEAQALWKEPGSNVTMSVDAECVPMVRDLLRYFYSSRIDITLSSVK
CFHKLASAYGARQLQGYCASLFAILLPQDPSFQMPDLIYAYAVATGDALLEKLCLQFLAWNFEALTQAEAWPSVP
TDLQLLLPRSDLAVPSELALLKAVDTWSWGERASHEEVEGLVEKIRFPMMLPEELFELQFNLSLYWSHEALFQK
KTLQALEFHTVPFQLLARYKGLNLTEDTYKPRIYTSETWSAFVTDSSWSARKSQLVYQSRXGAFGQIFF

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FIGURE 4991

GTGCCTCCCATGAGGAGGTGGAGGGCTTGGTGGAGAAGATCCGCTTCCCCATGATGCTCCCTGAGGAGCTCTTG
AGCTGCAGTTCAACCTGTCCCTGTACTGGAGCCACGAGGCCCTGTTCCAGAAGAAGACTCTGCAGGCCCTGGAAT
TCCACACTGTGCCCTTCCAGTTGCTGGCCCCGTACAAAGGCCTGAACCTCACCAGGATACCTACAAGCCACGGA
AGTCACAACCTGGTCTATCAGTCCAGACGGGGGCCCTTGGTCAAATATTCTTCTGATTACTTCCAAGCCCCCTCTG
ACTACAGATACTACCCCTACCAGTCCTTCCAGACTCCACAACACCCCAGCTTCCTCTTCCAGGACAAGAGGGTGT
CCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGAACCTACGGCTTCTCCTGCTCCTCGGACGAGCTCC
CTGTCTTGGGCCTACCAAGTCTGGCGGCTCAGATCGCACCATTTGCCTACGAAAACAAAGCCCTGATGCTCTGCG
AAGGGCTCTTCGTGGCAGACGTCACCGATTTCGAGGGCTGGAAGGCTGCGATTCCCAGTGCCTGGACACCAACA
GCTCGAAGAGCACCTCCTCCTTCCCTGCCCCGGCAGGGCACTTCAACGGCTTCCGCACGGTCATCCGCCCCCTCT
ACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCAAGGGTGGTGAGAACCGGAGAACCCCAGGACGCC
CTCACTGCAGGCTCCCCCTCCTCGGCTTCCTTCTCTGCAATGACCT

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FIGURE 4992A

TGCTCCCTCCAAATCCAAGTCCAGCAGTTCTCTCTTCTCCACGTCATCCTCTTCTCCTCAGATGAAGAGGA
TGACAGTGACTTAGATGCTAAGAGGGGTCCCCGGGGCCGCGAGACCCACCCAGTGCCGCGAGAAGAAGGCCAGAT
CCTGGTGGCCAAACCCGAGCTGAAGGATCCCATCCGGAAGAAGCGGGGACGAAAGCCCCTGCCCCAGAGCAAAA
GGCAACCCGAAGACCCGTGAGCCTGGCCAAAGTGCTGAAGACCGCCCGGAAGGATCTGGGGGCCCCGGCCAGCAA
GCTGCCCCCTCCACTCAGCGCCCCCGTTGAGGCCTGGCAGCTCTGAAGGCCACGCAAGGAGGCCTGTGGCGG
CCCCAGTGCCATGGCCACCCAGAGAACCTGGCCAGCCTAATGAAGGGCATGGCCAGTAGCCCCGGCCGGGGTGG
CATCAGCTGGCAGAGCTCCATCGTGCACTACATGAACCGGATGACCCAGAGCCAGGCCAGGCTGCCAGCAGGTT
GGCGCTGAAGGCCAGGCCACCAACAAGTGGCGCCTCGGGCTGGACCTGAAGGTGAGGACGCGAAGAGGGGAGCT
GGGAATGAGCCCTCCAGGAAGCAAAATCCCGAAGGCCCCACGCGGTGGGGCTGTGGAGCAGAAAGTGGGGAACAC
AGGGGGCCCCCGCACACCCATGGTGCCAGCAGGGGTGCCTGCTGGGTGCCAGGCCCCAGCCAGCACCCACCCA
GGAGCTGAGCCTCCAGGTCTTGGACTTGCAGAGTGTCAAGAATGGCATGCCCGGGGTGGGTCTCCTTGCCCCCA
CGCCACCGCCACCAAGGTGTCCCGGCCACCAACCCAGCCCCCTGGGAAGGGCACTGGGAGTGGCTCATTGGGGC
CAGCGGGGCCACCATGCCACCGACACAAGCAAAAGTGAGAAGCTGGCTTCCAGAGCAGTGGCGCCACCCACCCC
TGCCAGCAAGAGGGACTGTGTCAAGGGCAGTGCTACCCCACTGGGCAGGAGAGCCGACAGCCCCCGGAGAAGC
CCGCAAGCGGCCACACTGCCAGAGATGAGCGCAGGTGAGGAGAGTAGCAGCTCGGACTCCGACCCCGACTCCGC
CTCGCCGCCCAGCACTGGACAGAACCCGTAGTGCTCGTTTCCAGACAGCCAGGACTGGAAGCCACCCGAGCCT
CATCGAGCAGTATTTGTACCGACGTCAGTGCCAACCTCATCACCGTCACAGTGAAGGAGTCTCCACACAGCGT
GGGCTTCTTCAACCTGAGGCATTACTGAAGCCCCGGCGCCACCACTGCGCGGTCTTACTCCCTTCCCTGCCTA
TGGTGTGCTTGGCTAAGTGACTCCAGCCCAAGCCCCCTCAAGAGTCTGGGTGGGGGAGGAGGAGTGGGTGGC
CTCCTTGATGGGCAGGCTTGAAGGGACTTCTCCCGACCCCACTCTGTCCAGGACATAGGGCAGGGGGCCTCA
CTGCCTTGTGGTCTCCACCTTGTCTACCTCTGCAGGCCTCTTGTCTCTCCCTCTTGCCTCAGGAAACCCGG
TGGACCTGTGGCTCCAGGTGACTGTCTTGAACAGAGCGGGCTTCTTATGGCTGCGTTGTTGCTGAGTTTGAAC
TGCTCCTCCCTGGCCTGCGTGACTGAATCACAGCTTTGGTCCCTGTCTTGCAGGGGCTGAGGTGTCAGGAGGGGA
CTTCTGGCCACCTTGCCTTCCAGCCTGGAGTGGGCAGAGATATTGTGGGGAGGCATGGCCAGTGGGACTAGTG
TTCCCTCCATCTGGCCACAGCTTTTGGGAGATGGGGTGGGCAGGGGTGGTCTGGCTGGCATTGCCTGAGCCGGC
AGTGATGAAGTGGGGAGCTTGCCCTTGACAGGTGGGGGCTGGCTGGGGCCTTAATGTGAAAAGACAGTGGCAGGC
AGCTGGAGTAGAGCGAGCCAGCAGCCCTAAAAGGCTGCCTTCATGGCCATCTAGCCCCAGTTACAGGCAGCATC
CATAGCCCAAGCCAGCGTGGGTGGGGCGGGGGTGGTCCACAGCTGGGTCCACCTGAAGAGCCTCCGTGCCT
CGGAGCAGGAGAGGCAGGCTATGGCTGCCACCCTCCCTCCTGCCTGTGTCCAGTGAGAACTGACCTGAGTCCCC
TTCAAACCCAGACCCACCTCCTGCCCCAGGCCCACTGAAGCATGTTCCATTCTAAAAGCCCAGAGTTTCACTG
TGTCCCAAGGAAAACCCAAAGTGGAGGTGCTCAGGTCCAGGGGAGTCCAGTGGGCAGGACCCTTGGCAGGCAAGC
CCCTCCCTTCACTCCCAGGACCTACCTTCTGCTAGTAAAGGACTGGCTTCATTCTAATTATGGCCACAGACTGC
CCCGGAGACCTGGAGGACAGCAGTGCTGGCACTTGGGTGTCCATGGGCCCCGTCTGCCGGCTCTGCCTGTGTGCA
AGTGTGGCGGTGGGTCCAGCCAACAACCTCCCTACGTCTGTGTGGGGCCCTGCCCAAGTGGATGAGGCATTCTT
TGAGGAGTATCATTTTCCCTGACAATCCCCATCACCTTTAGGGGTTCCTGCTTGGCTCCTTTCCAGCTGAAAAA
CTAGACCTGTGCCATTGGGGAAGCTGGACAAAGTCTAGGGGGCCCGCCTGGTAGAGGGTCCCGGGAAGCTGGATC
TGTCAGCCTCGGCCCTGAGGCCCTGTAACTCAAGACTGTGAGCTGCCTCTAGGTGGTCACGTCTGGGAGCTAG
CTTGATGGCTTCTGACCAGTATCAGGATTTCTGTTCTGAGAGCAGCGTGGGCAGCAAGGCAGGGCAGCCAGAG
GTGGCAGCGGCAGGCAATCTGGTCACTAGGTCTTGTGATGCCAAAAATAAAGAGGGTGGGGTGGGTGCTTTCT
GTTCTCTGATTGGATGGAGTCCGCCAGCAGGCATGGGGCTACATTCCAGTGCCTGACTATAGGGAGGCACTCCT
GATTCCATGAGCAGCCCGGACTTTGAGAATGGGCTCTGGTTTGGGGGGGCGAGCGTACCAGACTGCAAGACCC
CCCAGTACCTCACCGTGCCAAATAGGAAGAGGTGGCCTTGGTGTAGCCAAATGATCTTTTTAAGAGTGTGCCTT
TGGGGAGGACCCATGTCCATGGCTTCGTTGAGGGCCATCCATATGCCAGCTGGGGGCCAGCCACAGTGGCCAT
ATTGGCTGCAGCAGGAATGGTGCCACCTCGGCGAATTGAAGGGCTAAGAGTCCAGATAGCTAGGCCAGAGCTG
GAAGCAGACAGTAAGGGGAAGAGCTGCTCCACAGAAGAGGGAGAGATTCCAGCTCACTGCGCAGCCTGGGAGGA
GGCGTGGATCCTGGCACGTGAGCCTCAGGCACCAGCCTCCCTGTGCTCGACAGCAAAGTCTTGACTCCTTCCTG
CTGAGCACTGTGCTACCTTCACTGCTCCAAAGCCAGACTAACAGCTCTCCAAGCCCTTGGGGTGAATCGGCTTCC
AGGAGCTGTGGAGAAATGAGGATGTCTGTCCCTGTCTGCCTGGGCAGGCCAGATTCTCCCCAGCAGCCGGGTG

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FIGURE 4992B

TCTCCAGACCCTGATTCCGGTGCCTTTCTGTTTACCAGCTACTTCAATCCCAAAGTTTGAATCTGCAGATACCTTA
CTCCCAGCCACTTTGCCTTCTTACTGTGTTGTGTGTTTTTCCTGGTGCTTCAAGAGCGTGTGCAGGGCAAGTGCC
GTCAGTGGGAAGTGCACCAGATGCTCAGACTTGGTTGTCTTATGTTTACCAATAAATAAAAGTAGACTTTTTCTA
TTTTTATTTGCTGCTATTTGTGTGTGTGTTTGTGTTTGTGTAGCTAGGTATCTGCACTTCTGACGATGCATTGTT
GCTTTTTTCCCGAAGTCCCGCAGGAAGTGTGGCAATGGTGTGTGTGTGAAATGGTGTGTTAACC GCGTTTTGTTT
GCTCCTGTATTGAATAGGAAGCAGTGGCCAGTCTGTCTTCCTTAGAGATGTTAGCATATTTTTATATGTATATAT
TTTGTACCAAAAAAGAGTGTTCCTTGTGTTTGGTTACACTCGAAATTCTGACCTAGCTGGAGAGGGCTCTGGGCCG
AGAGCTTTCCTAAGGGGAGACTTCAGGGGAGGATCAAGCTTTGAACCAAAGCCAATCACTGGCTTGATTGTGT
TTTTTAATTAAAAAAAATCATTTCATGTATGCCACTTCTAA

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FIGURE 4993

MATPENLASIMKGMASSPGRGGISWQSSIVHYMNRMTQSQAQAASRLALKAQATNKCGLGLDLKVRTQKGEIGMS
PPGSKIPKAPSGGAVEQKVGNTGGPPHTHGASRVPA GCPGPQAPPTQELSLQVLDLQSVKNGMPGVGLLARHATA
TKGV PATNPAPGKGTGSLIGASGATMPTDTSKSEKLASRAVAPPTPASKRDCVKGSATPSGQESRTAPGEARKA
ATLPEMSAGEESSSSDSDPD SASPPSTGQNPSVSVQTSQDWKPTRSLIEHVFTDVTANLITVTVKESPTSVGFF
NLRHY

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FIGURE 4994A

GCGCCTGCGCGGGAGGCCGCGTCACGTGACCCACCGCGGACCCGCCCCGCGACGAGCTCCCGCCGGTCACGTGAC
CCGCTCTGCGCGCCCCCGGGACGACCCCGGAGTCTCCGCGGGCGGCCAGGGCGCGCGTGC GCGGAGGTGAGCC
GGGCGGGGGCTGCGGGGCTTCCCTGAGCGCGGGCGGGTGGTGGGGCGGTGCGCTGCCCGCGCGGCCCTCTCAGT
TGGGAAAGCTGAGGTTGTGCGCGGGGCCGCGGGTGGAGGTGCGGGATGAGGCAGCAGGTAGGACAGTGACCTCGG
TGACGCGAAGGACCCCGGCCACCTCTAGGTTCTCTCGTCCGCCCCGTTGTTACGCGAGGGAGGCTCTGCGCGTGC
CGCAGCTGACGGGGAACTGAGGCACGGAGCGGGCTGTAGGAGCTGTCCAGGCCATCTCCAACCATGGGAGTGA
GGCACC CGCCCTGCTCCCACCGGCTCCTGGCCGTCTGCGCCCTCGTGTCTTGGCAACCGCTGCACTCCTGGGGC
ACATCCTACTCCATGATTTCTGCTGGTTCCCGAGAGCTGAGTGGCTCCTCCCCAGTCTGGAGGAGACTCACC
CAGCTCACCAGCAGGGAGCCAGCAGACCAGGGCCCCGGGATGCCAGGCACACCCCGCCGTCCAGAGCAGTGC
CCACACAGTGCGACGTCCCCCAACAGCCGCTTCGATTGCGCCCCTGACAAGGCCATCACCAGGAACAGTGCG
AGGCCCCGCGGCTGTTGCTACATCCCTGCAAAGCAGGGGCTGCAGGGAGCCAGATGGGGCAGCCCTGGTGCTTCT
TCCACCCAGCTACCCAGCTACAAGCTGGAGAACCTGAGCTCCTCTGAAATGGGCTACACGGCCACCTGACCC
GTACCACCCCACTTCTTCCCCAAGGACATCCTGACCCTGCGGCTGGACGTGATGATGGAGACTGAGAACCGCC
TCCACTTCACGATCAAAGATCCAGCTAACAGGCGCTACGAGGTGCCCTTGGAGACCCCGCATGTCCACAGCCGGG
CACCGTCCCCACTCTACAGCGTGGAGTTCTCCGAGGAGCCCTTCGGGGTGATCGTGC GCGCCGAGCTGGACGGCC
GCGTGCTGCTGAACACGACGGTGGCGCCCTGTTCTTTGCGGACCACTTCCTTCAGCTGTCCACCTCGCTGCCCT
CGCAGTATATCACAGGCCTCGCCGAGCACCTCAGTCCCCTGATGCTCAGCACCAGCTGGACCAGGATCACCTGT
GGAACCGGGACCTTGC GCGCCACGCCCGGTGCGAACCTCTACGGGTCTCACCTTTCTACCTGGCGCTGGAGGACG
GCGGGTGGGCACACGGGGTGTCTCTGCTAAACAGCAATGCCATGGATGTGGTCTGCAGCCGAGCCCTGCCCTTA
GCTGGAGGTGACAGGTGGGATCCTGGATGTCTACATCTTCTGGGCCCAGAGCCCAAGAGCGTGGTGCAGCAGT
ACCTGGACGTTGTGGGATAACCGTTTCATGCCGCCATACTGGGGCCTGGGCTTCCACCTGTGCCGTGGGGCTACT
CCTCCACCGCTATCACCGCCAGGTGGTGGAGAACATGACCAGGGCCCACTTCCCCCTGGACGTCCAGTGGAAACG
ACCTGGACTACATGGACTCCCGGAGGGACTTCAGGTTCAACAAGGATGGCTTCCGGGACTTCCCGGCCATGGTGC
AGGAGCTGCACCAGGGCGGCCGCGCTACATGATGATCGTGGATCCTGCCATCAGCAGCTCGGGCCCTGCCGGGA
GCTACAGGCCCTACGACGAGGGTCTGCGGAGGGGGGTTTTTCATCACCAACGAGACCGCCAGCCGCTGATTGGGA
AGGTATGGCCCCGGTCCACTGCCTTCCCCGACTTCACCAACCCACAGCCCTGGCCTGGTGGGAGGACAIGGTGG
CTGAGTTCCATGACCAGGTGCCCTTCGACGGCATGTGGATTGACATGAACGAGCCTTCCAATTCTACAGGGGCT
CTGAGGACGGCTGCCCCAACAATGAGCTGGAGAACCACCTACGTGCCCTGGGGTGGTGGGGGGACCTCCAGG
CGGCCACCATCTGTGCCTCCAGCCACCACTTCTCTCCACACACTACAACCTGCACAACCTCTACGGCCTGACCG
AAGCCATCGCTCCACAGGGCGCTGGTGAAGGCTCGGGGGACAGCCCATTTGTGATCTCCCGCTCGACCTTTG
CTGGCCACGGCCGATACGCCGGCCACTGGACGGGGACGTGTGGAGCTCCTGGGAGCAGCTCGCCTCCTCCGTGC
CAGAAATCTGCAGTTAACTGTGGGGGTGCCCTGTGTGGGGCCGACGTCTGCGGCTTCTGGGCAACACCT
CAGAGGAGCTGTGTGCGCTGGACCCAGCTGGGGGCTTCTACCCCTCATGCGGAACCAACAGCCTGCTCA
GTCTGCCCCAGGAGCCGTACAGCTTCAGCGAGCCGCCCCAGCAGGCCATGAGGAAGGCCCTCACCTGCGCTACG
CACTCCTCCCCACCTCTACACACTGTTCACCAGGCCACGTGCGGGGGAGACCGTGGCCCCGGCCCCCTCTTCC
TGGAGTTCCCCAAGGACTCTAGCACCTGGACTGTGGACCACAGCTCCTGTGGGGGGAGGCCCTGCTCATACCC
CAGTGCTCCAGGCCGGAAGGCCGAAGTGACTGGCTACTTCCCCTTGGGCACATGGTACGACCTGCAGACGGTGC
CAGTAGAGGCCCTTGGCAGCTCCACCCCCACCTGCAGCTCCCCGTGAGCCAGCCATCCACAGCGAGGGGCAGT
GGGTGACGCTGCCGGCCCCCTGGACACCATCAACGTCCACCTCCGGGCTGGGTACATCATCCCCCTGCAGGGCC
CTGGCCTCACAACCACAGAGTCCCGCCAGCAGCCATGGCCCTGGCTGTGGCCCTGACCAAGGGTGGGGAGGCC
GAGGGGAGCTGTTCTGGGACGATGGAGAGAGCCTGGAAGTGCTGGAGCGAGGGGCTACACACAGGTATCTTCC
TGGCCAGGAATAACACGATCGTGAATGAGCTGGTACGTGTGACCAGTGAGGGAGCTGGCTGCAGCTGCAGAAGG
TGACTGTCTGGGCGTGGCCACGGCGCCCCAGCAGTCTCTCCAACGGTGTCCCTGTCTCCAACCTCACCTACA
GCCCCGACACCAAGGTCTGGACATCTGTGTCTCGTGTGTGATGGGAGAGCAGTTTCTGCTCAGCTGGTGTAGC
CGGGCGGAGTGTGTAGTCTCTCCAGAGGGAGGCTGGTTCCCCAGGGAAACAGAGCCTGTGTGCGGGCAGCAGCT
GTGTGCGGGCCTGGGGTTGCATGTGTACCTGGAGCTGGGCACTAACCAATTCCAAGCCGCCGATCGCTGTGTT
CCACCTCCTGGGCCGGGGCTCTGGCCCCAACGTGTCTAGGAGAGCTTCTCCCTAGATCGCACTGTGGGCCGGG
GCCCTGGAGGGCTGCTCTGTGTTAATAAGATTGTAAGGTTGCCCTCCTCACCTGTTGCCGCGATGCGGGTAGTA

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FIGURE 4994B

TTAGCCACCCCCCTCCATCTGTTCCCAGCACCGGAGAAGGGGGTGCTCAGGTGGAGGTGTGGGGTATGCACCTGA
GCTCCTGCTTCGCGCCTGCTGCTCTGCCCCAACGCGACCGCTGCCCGGCTGCCCAGAGGGCTGGATGCCTGCCGG
TCCCCGAGCAAGCCTGGGAACTCAGGAAAATTCACAGGACTTGGGAGATTCTAAATCTTAAGTGCAATTATTTT
AATAAAAGGGGCATTGGAATC

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FIGURE 4995

TCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAG
CGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCAGCG
CGCTGTGCTCTTCCGCGGACTCTGAATCATGGCGACCACGGCCACGATGGCGACCTCGGGCTCGGCGCGAAAGCG
GCTGCTCAAAGAGGAAGACATGACTAAAGTGGAATTCGAGACCAGCGAGGAGGTGGATGTGACCCCCACGTTCTGA
CACCATGGGCCCTGCGGGAGGACCTGCTGCGGGGCATCTACGCTTACGGTTTTGAAAAACCATCAGCAATCCAGCA
ACGAGCAATCAAGCAGATCATCAAAGGGAGAGATGTCATCGCACAGTCTCAGTCCGGCACAGGAAAAACAGCCAC
CTTCAGTATCTCAGTCCCTCCAGTGTTTGGATATTAGGTTCTGTGAAACTCAAGCTTTGATCTTGGCTCCCAAG
AGAGTTGGCTGTGCAGATCCAGAAGGGGCTGCTTGCTCTCGGTGACTACATGAATGTCCAGTGCCATGCCTGCAT
TGGAGGCACCAATGTTGGCGAGGACATCAGGAAGCTGGATTACGGACAGCATGTTGTCGCGGGCACTCCAGGGCG
TGTTTTTGATATGATTCTGTCGAGAAGCCTAAGGACACGTGCTATCAAAATGTTGGTTTTGGATGAAGCTGATGA
AATGTTGAATAAAGGTTTTCAAAGAGCAGATTTACGATGTATACAGGTACCTGCCTCCAGCCACACAGGTGGTTCT
CATCAGTGCCACGCTGCCACACGAGATTCTGGAGATGACCAACAAGTTCATGACCGACCCAATCCGCATCTTGGT
GAAACGTGATGAATTGACTCTGGAAGGCATCAAGCAATTTTTCTGTCAGTGGAGAGGGAAGAGTGGAATTTGA
CACTCTGTGTGACCTCTACGACACACTGACCATCACTCAGGCGGTCTCTTCTGCAACACCAAAAGAAAGGTGGA
CTGGCTGACGGAGAAAAATGAGGGAAGCCAACTTCACTGTATCCTCAATGCATGGAGACATGCCCCAGAAAGAGCG
GGAGTCCATCATGAAGGAGTTCCGGTCGGGCGCCAGCCAGTGCTTATTTCTACAGATGTCTGGGCCAGGGGGTT
GGATGTCCCTCAGGTGTCCCTCATTAATATGATCTCCCTAATAACAGAGAATTGTACATACACAGAATTGG
GAGATCAGGTCGATACGGCCGAAGGGTGTGGCCATTAACTTTGTAAGAATGACGACATCCGCATCCTCAGAGA
TATCGAGCAGTACTATTCCACTCAGATTGATGAGATGCCGATGAACGTTGCTGATCTTATCTGAAGCAGCAGATC
AGTGGGATGAGGGAGACTGTTACCTGCTGTGTACTCCTGTTTGAAGTATTTAGATCCAGATTCTACTTAATGG
GGTTTATATGGACTTTCTTCTATAAATGGCCTGCCGTCTCCCTTCCTTTGAAGAGGATATGGGGATTCTGCTCT
CTTTTCTTATTACATGTAAATAATACATTGTTCTAAGTCTTTTTTCATTAAAAATTTAAACTTTTCCCAT

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FIGURE 4996A

GACGGGCTGGGGAGGTGGTGCCAGGCTGGTTGCTAGCTGCCCGCTGCTCACCCCGGCCGTCCGGCCGCTTCAT
TGTCACCGGGCCTCGGGGCAGTGTTGGGGGTGGCGGGGCGCCAGGTCGCCGACCCGAGGTTTGGGCGCGACTGGT
TCCGCATCCCCTCCC CGCGGCCGAATCTGCAGGCCCCGCGGCCAGGCAGGCTTCGCGGCTGCGCCCCCGGCC
GCGCAGGACCTGCCTTGTCACCAATGAAAGGCACCCGGGCCATCGGCAGCGTCCCGAGCGCACGCCAGCAGGTG
TGGACCTGAGTCTGACAGGTCTCCCTCCGCTGTGTCCCGCGCTCCTGGCAGTGCGCCACCACCAAGCCCATCGT
CCGCTCTGTCTCCGTGGTACAGGCAGCGAGCAGAAGAGGAAGGTGCTGGAGGCCACAGGGCTGGGGGCTCCCA
GGCCATCAACAACCTTAGGAGATCCAACAGCACCACGCAGGTGAGCCAGCCTCGGAGCGGCTCCCCAGGCCAAC
GGAGCCACAGACTTCTGATGCTCTTCGAGGGCAGCCCCAGTGGGAAAAAGAGGCTGCCAGCCTGAGCACAGC
CCCCAGCGAGAAGGGAGCCACCTGGAACGTCTGGATGACCAGCCCCGGGGCTTACCTTGCCATCCAATGCCCG
GAGTTCCAGTGCCCTTGACTACCCAGCGGGCCCGGGAGGAAAGAATGCACCGTGGCCCTGGCCCCAACCTTAC
TGCTAACAACAGGAGCAACAAGGGAGCAGTGGGCAACTGCGTCACCACCATGGTGCACAACCGCTACCCCCCTC
GGAGAGGGCGCCTCCGCTCAAGAGCTCCAACAGACTGCCCCCTCCCTCAACAACATCATCAAGGCAGCCACCTG
TGAGGGCAGTGAGAGCAGCGGCTTTGGGAAGCTGCCGAAGAATGTCTCCAGTGCCACCCACTCAGCCCGGAACAA
TACTGGGGGCAGCACGGGCTTGCCAGGCGGAAGGAGGTGACGGAGGAGGAGGCTGAGAGGTTTATCCACCAGGT
GAACCAGGCCACTGTCACCATCCAGCGTGGTACCGGCACCAGGTGCAGCGGCGGGAGCAGGAGCTGCCCGCT
GGAGCACTTGCTTACGCCAAGCGGGAGGAGCAGCGGCAGCGGTGAGGCGAGGGGACCCTCTTGACCTGCACCA
GCAGAAAGAGGCAGCCAGGAGGAAGGCCGGGAGGAGAAGGCACGCCAAGCCAGGCGAGCAGCCATTAGGAGCT
GCAACAGAAACGAGCCCTGAGAGCCAGAAGGCGAGCACTGCCGAGCGTGGGCCACCTGAGAATCCAGGGAGAC
CAGAGTGCCAGGAATGCGGCAGCCTGCTCAGGAGCTGTCCCCACACCAGGCGGCACTGCCACCAGGCCCTCAA
GGCCAAACAATACTGGTGGTGGCTCCCTGCTGCAGGCCCCGGAGACCGCTGCCTGCCACCTCCGACTCATCCCC
AGAACCACAGCAGCCTCCAGAGGACAGGACGCAGGACGTTCTTGCCAGGATGCAGCTGGGGACAACCTGGAGAT
GATGGCCCCGAGCAGGGGGAGCGCCAAGTCCAGGGGGCACTGGAGGAGCTGCTGCACACTGCAGCTGCTGGA
GAAGGAGCCGGACGTGCTGCCCGCCCCAGGACCCATCACAGGGGCAGATACGCTGGGCCAGCGAGGTGACCAC
GGAGGATGACGCCAGCTCTGTACAGCTGACAACCTGGAGAAATTTGGAAGCTCAGTGCGTTCCCCGAACCTCC
TGAGGATGGGACGCTGCTATCGGAGGCCAAGCTACAAAGCATCATGAGCTTCTTGACGAGATGGAGAAGTCTGG
GCAGGACCAGCTGGACTCCAGCAGGAGGGGTGGGTGCCGAGGCGGGGCGGGCCCCCTGGAGCTGGGGTCCGA
GGTGAGCACGTCTGTGATGCGGCTGAAGCTGGAGGTGGAGGAGAAGAAGCAGGCCATGCTGCTGCTGCAGAGAGC
GCTGGCGCAGCAGCGAGACCTCACGGCCCGCGGGTCAAGGAGACAGAGAAGGCGCTGAGCCGCGAGCTGCAGCG
GCAGAGGGAGCACTACGAGGCCACCATCCAGCGCACTTGCCCTTATTGACCAGCTGATTGAGGACAAGAAGGT
CCTGAGTGAAAAGTGCAGGCTGTGGTGGCCGAGCTGAAGCAGGAGGACCAGAGATGCACCGAGCGTGTGGCCCA
GGCACAGGCGCAGCAGAGCTGGAGATTAAAAAACTCAAAGAATTAATGAGCGCCACCGAGAAAGCCCGCGGGA
GAAGTGGATCAGTGAGAAAACCAAGAAGATCAAGGAGGTCACTGTCCGAGGTCTGGAGCCCGAGATCCAGAAGCT
GATTGCAAGGCACAAGCAGGAAGTGCAGGAGCTCAAGAGCTGCACGAGGCGGAGCTGCTGCAGTCGGATGAGCG
GGCCTCGCAGCGCTGCCTGCGCCAGGCCGAGGAGCTGCGGGAGCAGCTGGAGCGGGAGAAGGAGCGCTGGGCCA
GCAGGAGCGCGAACGTGCTCGGCAGCGGTTCCAGCAGCACTGGAGCAGGAGCAGTGGGCGCTGCAGCAGCAACG
GCAGCGGCTGTACAGTGAGGTGGCTGAGGAGAGGGAGCGGCTGGGCCAGCAGGCAGCCAGGCAGCGGGCGGAGCT
GGAAGAGCTGAGGCAGCAGCTGGAGGAGAGCAGCTCTGCACTGACCCGAGCCCTGAGGGCTGAGTTTGAGAAGGG
CAGGGAGGAGCAGGAGCGCCGGCACCAGATGGAGCTGAATACCCTGAAGCAGCAGCTGGAGCTGGAGAGGCAGGC
GTGGGAGGCCGCGCCGACCAGGAAGGAGGAGCGGTGGCTGCTGAACCGGGAACAGGAGCTGAGGGAAGAAATCCG
GAAAGGCCGGGACAAGGAGATTGAGCTGGTCAATCACCGGCTGGAGGCCGACATGGCGCTGGCCAAGGAGGAGAG
TGAGAAGGCTGCCGAGAGCCGCATCAAGCGCTTACGGGACAAGTACGAGGCCGAGCTCTCCGAGCTGGAGCAGTC
GGAGCGGAAGCTTACGAGCGGTGCTCGGAGCTGAAGGGCCAGCTTGGGGAGGCCGAGGGCGAGAATCTGCGTCT
GCAGGGCTTGTGCGGCAGAAGGAGCGGGCGCTGGAGGATGCGCAGGCGGTGAACGAGCAGCTTCTAGCGAGCG
CAGCAACCTGGCCCAGGTGATCCGCCAGGAGTTCGAGGACCGGCTGGCAGCTCTGAGGAGGAGACGCGGCAGGC
CAAGGCCGAGCTGGCCACGCTGCAGGCCGCCAGCAGCTGGAGCTGGAGGAGGTGCACCGGAGGGTGAAGACAGC
CCTCGCGAGGAAGGAGGAGCCGTGAGCAGCTCCGGACACAACATGAGGCTGCGGTGAAGCGGGCCGACCACCT
GGAGGAGCTGCTGGAGCAGCACAGGAGGCCACGCCAAGTACCAAGTGACCAGGATGCCGGGAACACTGTGAA
GAACGGAAGGCAGAGGACAGAGGCTGGACGTGGGCCAGAGGCCACAGGACGCCACCTGCCCCCACAGAGG

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FIGURE 4996B

CTGGTGGTTGAGATGCCCCACGGCTAAGCACCTGTGGCTGCATTTTAAACAGTAAAGGAGGCCGTTGTTTTTC

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FIGURE 4997

MKGTRAGSVSPERSPAGVDLSLTGLPPVSRPFGSAATTKPIVRSVSVVTGSEQKRKVLEATGPGGSQAINNLRR
SNSTTQVSQPRSGSPRPTEPTDFLMLFEGSPSGKKRPASLSTAPSEKGATWNVLDQPRGFTLPSNARSSSALDS
PAGPRRKECTVALAPNFTANNRSNKGAVGNCVTMTMVHNRYTPSERAPPLKSSNQTAAPSLNNIIKAATCEGSESSG
FGKLPKNVSSATHSARNNTGGSTGLPRRKEVTEEEAERFIHQVNQATVTIQRWYRHQVQRRGAGAAARLEHLLQAK
REEQRQSRGEGTLLDLHQKEAARRKAREEKARQARRAAIQELQQKRALRAQKASTAERGPPENPRETRVPGMRQ
PAQELSPTPGGTAHQALKANNTGGGLPAAGPGDRCLPTSDSSPEPQOPPEDRTQDVLAQDAAGDNLEMMAPSRGS
AKSRGPLEELLHTLQLEKEPDVLP RPRTTHHRGRYAWASEVTTEDDASSLTADNLEKFGKLSAFPEPPEDGTLLS
EAKLQSIMSFLDEMEKSGDQLDSQQEGWVPEAGPGPLELGSEVSTSMRLKLEVEEKKQAMLLLQRALAQQRDL
TARRVKETEKALSRQLQRQREHYEATIQRHAFIDQLIEDKKVLSEKCEAVVAELKQEDQRCTERVAQQAQAHEL
EIKKLKELMSATEKARREKWISEKTKKIKEVTVRGLEPEIQKLIARHKQEVRRKLSLHEAELLQSDERASQRCJR
QAEELREQLEREKEALGQQERERARQRFQQHLEQEQWALQQQRQRLYSEVAEERERLGQQAARQRAELEELRQQL
EESSALTRALRAEFKGREEQERRHQMELNTLKQQLERQAWAEAGTRKEEAWLLNREQELREEIRKGRDKEI
ELVIHRLEADMALAKEESEKAAESRIKRLRDKYAEELSELEQSERKLOERCSELKGQLGEAEGENLRLQGLVRQK
ERALEDAQAVNEQLSSERSNLAQVIRQEFEDRLAASEEETRQAKAELATLQARQQLELEEVRHVKTALARKEEA
VSSLRTQHEAAVKRADHLEELLEQHRRPTPSTK

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FIGURE 4998

CAGGTGAGGCGGAACCAACCCCTCCTGGCCATGGGAGGGGCCGTGGTGGACGAGGGCCCACAGGCGTCAAGGCCCT
GACGGCGGCTGGGCGTGAGGCGTGCTCTTCGGCTGTTTCGTCATCACTGGCTTCTCCTACGCCCTCCCCAAGGCC
GTCAGTGTCTTCTTCAAGGAGCTCATAAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATC
CTGCTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCGTCATG
CTTGTGGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCCTTTTGCCGGAGCATCATCCAGGTCTACCTC
ACCACTGGGGTCATCACGGGGTTGGGTTTGGCACTCAACTTCCAGCCCTCGCTCATCATGCTGAACCGCTACTTC
AGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCCTGTGTGCCCTGAGCCCGCTG
GGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCTTCCTCATCCTGGGCGGCCTGCTGCTCAACTGCTGC
GTGTGTGCCGCACTCATGAGGCCCTGGTGGTCACGGCCCAGCCGGCTCGGGGCAGCCGCGACCCCTCCCGGCGCC
TGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGCTTTACGCCGTGGCCGCTCGGTGTCATGGTGTGGGGC
TCTTCGTCCCGCCCGTGTTCGTGGTGATGACGCCAAGGACCTGGCGTGCCCGACACCAAGGCGCCTTCCTGCTCA
CCATCCTGGGCTTCATTGACATACTTACGCCCGCGGGGCTTCGTGCGGGGCTTGGGAAGGTGCGGCCCTATCCG

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FIGURE 4999

GC GGGCGGCGGCGCTCGGAGTCGCCGGGAGCTGCCAGGCTGCTCCGCGCGCCGCTGCGGGGCCATGATCCGGAAC
GGGCGCGGGGCTGCAGGCGGCGCAGAGCAGCCGGGCCGGGGGCGAGGCGCGCCGTGAGGGTGTGGTGCGATGGC
TGCTATGACATGGTGCATTACGGCCACTCCAACCAGCTGCCGCCAGGCACGGGCCATGGGTGACTACCTCATCGTA
GGCGTGCACACCGATGAGGAGATCGCCAAGCACAAGGGGCCCGGTGTTCACTCAGGAGGAGAGATACAAGATG
GTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACACTAGAGACCCTGGACAAA
TACAACTGTGACTTCTGTGTTACGGCAATGACATCACCTGACTGTAGATGGCCGGGACACCTATGAGGAAGTA
AAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGTCCACCACAGACCTCGTGGGCCGCATGCTG
CTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCTCTGAGTACCGGGAGTATGCAGACAGTTTTGGCAA
TGCCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCAGTTCCTGCAGACATCTCAGAAGATCATCCAGTTTGCT
TCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATCTATGTGGCTGGTGCCCTTCGACCTGTTCCACATCGGGCAT
GTGGACTTCCTGGAGAAGGTGCACAGGCTGGCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAG
GTCAATCACTACAAGGGGAAGAACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGTGGCCTGCCGG
TACGTGTGAGAAGTGGTGATTGGAGCCCCGTACGCGGTACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTG
GTGTGTACGGCAAGACAGAAATTATCCCTGACAGGGATGGCTCCGACCCATACCAGGAGCCCAAGAGAAGGGGC
ATCTTCCGTCAGATTGACAGTGGCAGCAACCATCACCAAAGACTCATCGTCAGCGGATTATCACAAACAXXXXXX
XXXXXGAGGCGCTAAACGAGAAGAAGGAAGCCAAGGAGCTCGCCTTCCTGGAGGTGCCAGGCAGCAGGCGCACAG
CCCTGGGAGCGCGATGGTACTTCTAACCCTGGCAGAGCCCTGCCGGCCCTCCCTCTGCTCTGCTTCTGCGCCTTC
TGCGTTTGGACATAGGACTCTGCAGGGCCGCCCTCTCTAACTGGCCTGGCTCTGGAAGGGCTGGTGAGGACTCTG
CCTCCTTGCTGCTTACAAGGTGCCTGGTTTGACGAGGCTCTCCGCTCTTTCCAGCAAAGCTGCTCAGAGAGGG
TGTCCAGCACAGTGGAGAGGCCGGAAGTGAGACGGGCAGACGGCACCTGCAGCCTGAAACGCACCGCTCCTGCGT
GCGCCCCACCTGGTCCCCGGATGCCCCCACCACCTGGACAGAGGCCACACTGACTGCCCACCCAGCTGTGGCGG
GAGGTGCAGAGCAGAGGGCTTTAGGGAGCAGTGA CTGCGGTACCCCTTTAGTTCTCTGGGTGTAGACCACACCA
CCTCCCACTGGGCACCCCCAACACGGTGTCTGCCACCCAGCGCCTGGCTCCAGGAAAACACGCTTGCCTTCCT
TCCCGGCAGCTTCGCCACTCTCCTTATGGACTCTGTTCTGTTTGTACATGGCTGACGGAATCTCTTTGGTACAA
CCGAATAAAGCCTGGTGGCAGTGCTGCGCGGGGCTCCAGCC

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FIGURE 5000

TGACCTGACCTCTCTCCTCTCCCTCACCCCTCCTGCCCCTGGCCACTGCAGGATCAGGAGGGGAGAAGAAGGAGC
CTCTGCTGCCTCCCAGGCTGCTGGGACTGGGCTGGTTTTTGTCCTTGAAGTGGTCAGGATACAGGACAAGGGCAGC
CCCACCCATCCAGCCTGGGCTCCCCGCAGACCCTTGCTGCTCCCGTGGCCTGGACA'CGCTGGGGAGCTTCTCAC
ACCTACCCCAGGCTGACCCTGAGGTGCTGCTGCTGGGTCTGTCTTGGCTCTGGGGTGTGCTGGGAGGGTCACCAG
GTCCCTTTTCCTTCCTGTGCCCTCTGAAAGCTAAGTGTCTGTGTGGCTGTGGAGCTCGAGGGTCTGTGAATAAAG
GCGGCGGCACTGGG

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FIGURE 5001

CCCCTACACACCGTCCGTTACCCCCGTCTCTTCCTTCTGCTTTTCGGTTTTTGGAAAGGGATCCATCTCCAGGC
AGCCCACCCCTGGTGGGGCTTGTTTCCTGAAACCATGATGTACTTTTTTCATACATGAGTCTGTCCAGAGTGCTTGC
TACCGTGTTCCGAGTCTCGCTGCCTCCCTCCCGCGGGAGGTTTCTCCTCTTTTGGAAAATTCCGTCTGTGGGATT
TTTAGACATTTTTCGACATCAGGGGTGTCCCCCATGCCTGGAAGAGGAGCTGGTGGCTGCCAGCCCTGGGGCCCG
GCACAGGCCTGGGCCTTCCCCTTCCCTCAAGCCAGGGCTCCTCCTGTCGTGGGCTCATTGTGACCACTGGCC
TCTCTACAGCACGGCCTGTGGCCTGTTCAAGGCAGAACCAGACCCTTGACTCCCGGGTGGGGAGGTGGCCAAGG
ATGCTGGAGCTGAATCAGACGCTGACAGTTCTTCAGGCATTCTATTTACAATCGAATTGAACACATTGGCCAA
ATAAAGTTGAAATTTT

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FIGURE 5002

GGCAGAGGGGGCGCCGACGACGTTTCGTCAATTTAGTGCGGGAGGGATCCTGAACCGCGCGGCCGAACCCTCCGG
TGTCCTCCGACCCAGGCTAAGCTTGAGCATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGG
AGAACGAGGAGGATGAGCACTCGGTCAACTACAAGCCCCGGCCAGAGAGCATCCAGGAGATCCAGGAGCTGG
ACAAGGACGACGAGAGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGACAGCCCCAACG
TCCCCAACGTCGTGGTGACTGGCCTGACCTGGTGTGACGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGG
GCGACCTGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAAATCTCTTTCC
GGGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACTACAGGAAAGGCGTCAAGATTGACAAGA
CTGACTACATGGTAGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCCTGACCCCCGTGGAGGAGGCACCCA
AGGGTATGCTGGCCCGGGGCGAGCTACAGCATCAAGTCCCGCTTACAGACGACGACAAGACCGACCACTGTCTT
GGGAGTGGAATCTCACCATCAAGAAGGACTGGAAGGACTGAGCCAGCCAGAGGCGGGCAGGGCAGACTGACGGA
CGGACGACGACAGGCGGATGTGTCCCCCAGCCCCCTCCCCTCCCCATACCAAAGTGCTGACAGGCCCTCCGTG
CCCCCCCCACCTGGTCCGCTCCCTGGCCTGGCTCAACCGAGTGCCTCCGACCCCCCTCCTCAGCCCTCCCCCA
CCCACAGGCCAGCCTCCTCGGTCTCCTGTCTCGTTGCTGCTTCTGCCTGTGCTGTGGGGGAGAGAGGCCGAGC
CAGGCCTCTGCTGCCCTTTCTGTGCCCCCAGGTTCTATCTCCCCGTCACACCCGAGGCCTGGCTTCAGGAGGGA
GCGGAGCAGCCATTCTCCAGGCCCGTGGTTGCCCCCTGGACGTGTGCGTCTGCTGCTCCGGGGTGGAGCTGGGGT
GTGGGATGCACGGCCTCGTGGGGGCGGGCCGTCTCCAGCCCCGCTGCTCCCTGGCCAGCCCCCTTGTGCTGT
CGGTCCCGTCTAACCATGATGCCTTAACATGTGGAGTGTACCGTGGGGCCTCACTAGCCTCTAACTCCCTGTGTC
TGCTGAGCATGTGGCTCCCCGTCCCTTCCCCGGTGGCGAACCCAGTGACCCAGGGACACGTGGGGTGTGCTGC
TGCTGCTCCCAGCCCCACAGTGCCTGGCCAGCCTGCCCCCTTCCCTGGACAGGGCTGTGGAGATGGCTCCGGCG
GCTTGGGGAAAGCCAAATTGCCAAAACCAAGTACCTCAGTACCATCCAGGAGGCTGGGTATTGTCTGCCTCT
GCCTTTTCTGTCTCAGCGGGCAGTGCCAGAGCCACACCCCCCAAGAGCCCTCGATGGACAGCCTCACCCACC
CCACCTGGGCCAGCCAGGAGCCCCGCCTGGCCATCAGTATTTATTGCCTCCGTCCGTGCCGTCCCTGGGCCACT
GGCCTGGCGCCTGTTCCCCCAGGCTCTCAGTGCCACCACCCCCGGCAGGCCTTCCCTGACCCAGCCAGGAACAAA
CAAGGGACCAAGTGACACATTGCTGAGAGCCGTCTCCTGTGCTTCCCCGCCCCATCCCCGCTCTCGTGTGT
GTCTGCCAGGCTCAGGCAGAGGCGCCTGTCCCTGCTTCTTTCTGACCGGAAATAAATGCCCTGAAGGAAAA
AA

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FIGURE 5003

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNVPNVVVTGL
TLVCSSAPGPLELDTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVKIDKTDYMGVGSYG
PRAEYEFLLTPVEEAPKGMLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD

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FIGURE 5004

CTCCGGACAGCATGAGCGTGGGCTTCATCGGCGCTGGCAGCTGGCTTTTGCCCTGGCCAAGGCTTTCACAGCAG
CAGGCGTCTTGGCTGCCCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGA
AGATGGGGGTGAAGTTGACACCCACAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCTGGCTGTGAAGC
CACACATCATCCCTTTCATCCTGGATGAAATAGGCGCGACATTGAGGACAGACACATTGTGGTGTCTGCGCGG
CCGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTCAGCGTTTTCGGCCAGCCCCAGGGTCATCCGCTGCATGA
CCAACACTCCAGTCGTGGTGCAGGAGGGGGCCACCGTGTATGCCACAGGACGCACGCCAGGTGGAGGACGGGAG
GCTCATGGAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAGAGGACCTGATTGATGCCGTACGGG
GCTCAGTGGCAGCGCCCCCGCTACGCATTACAGCCCTGGATGCCCTGGCTGATGGGGGTGTGAAGATGGGACT
TCCAAGGCGCTGGCAGTCCGCTCGGGGCCAGGCCCTCTGGGGGTGCCAAGATGCTGCTGCACTCAGAACA
GCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTCTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAG
TGGGGGCTTCCGCTCCCTGCTCATCAACGCTGTGGAGGCTCTGTCATCCGCACACGGGAGCTGCAGTCCATGGC
TGACCAGGAGCAGGTGTACACAGCCGCCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCTGCAGG
GACCGCTCTGTACCTTCTGGCCACACCAAGCTGCTCCCCCGCAGCCTGGCCCCAGCGGGCAAGGATTGACACGT
CCTGCCTGACCACCATCCTGCCACCACCTTCTTCTTCTTGTCACTAGGGGGACTAGGGGGTCCCCAAAGTGGCC
CACTTTCTGTGGCTCTGATCAGCGCAGGGGCCAGCCAGGGACATAGCCAGGGAGGGGCCACATCACTTCCCACTG
GAAATCTCTGTGGTCTGCAAGTGCTTCCCAGCCCAGAACAGGGGTGGATTCCCCAACCTCAACCTCCTTTCTTCT
CTGCTCCCCAAACCATGTCAGGACCACCTTCTCTAGAGCTCGGGAGCCCCGAGGGTCTTACCCCACTCCTACTCC
AGTATCAGCTGGCACGGGCTCCTTCCCTGAGAGCAAAGGTCAAGGACCCCCCTCTGTGAAGGCTCAGCAGAGGTGGG
ATCCACGCCCCCTCCCGGCCCTCCCTGCCCTCCATTACAGGGAGAAACCTCTCCTTCCCGTGTGAGAAGGGCCA
GAGGGTCCAGGCATCCCAAGTCCAGCGTGAAGGGCCACAGCCCCTCTTGGCTGCCAAGCACGCAGATCCCATGGA
CATTGGGGAAAGGGCTCCTTGGGCTGCTGGTGAACCTTCTGTGGCCACCACCTCCTGCTCCTGACCTCCCTGGGA
GGGTGCTATCAGTTCTGTCTGGCCCTTTCAGTTTTATAAGTTGGTTTCCAGCCCCAGTGTCTGACTTCTGTG
TGCCACATGAGGAGGGAGGCCCTGCCTGTGTGGGAGGGTGGTTACTGTGGGTGGAATAGTGGAGGCCTTCAACTG
ATTAGACAAGGCCCGCCACATCTTGGAGGGCATCTGCCTTACTGATTAAATGTCAATGTAATCT

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FIGURE 5005

MEQLSSVGFCTEVEEDLIDAVTGLSGSPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQH
PGQLKDNVSSPGGATIHVLES GGFRSLLINAVEASCIRTRELQSMADQEQVSPAIAIKKTILDKVKLDSPAGT
ALSPSGHTKLLPRSLAPAGKD

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FIGURE 5006

GACATGGAGCTGTTCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCGCG
GAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGTGTGCCCCCTGCTGCAGCCCTTCCTGGAGGTACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAATAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCACTTTGCCGGTGAAGGGGGCTTCTGGGCCTGCTGAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 5007

MELFLAGRRVLVTGAGKGIGRTVQALHATGARVVAVSRTQADLDSLVRCPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPVVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

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FIGURE 5008

TCTCTGAAGTTCCAGAATCGATGGAAGTGGACGGCACGCCGCGGGTGGGTGCAAGATGCCGCTGCCGGTTC
AGGTGTTTAACTTGCAGGGGGCCGTGGAGCCCATGCAGATCGACGTGGACCCCCAGGAAGACCCGCAGAATGCAC
CTGACGTCAACTACGTGGTGGAGAACCCACGCTGGATCTGGAACAGTACGCGGCCAGCTACAGCGGCCTGATGC
GCATCGAACGGCTGCAGTTTATTGCTGATCACTGCCCCACGCTGCGGGTGGAGGCCCTGAAGATGGCCCTCTCCT
TCGTGCAGAGAACCTTTAAGCTGGACATGTACGAGGAGATCCACCGCAAGCTCTCAGAGGCCACCAGGGAGCTGC
AGAACGCACCCGACGCCATCCCTGAGAGCGGCGTGGAGCCCCAGCCCTGGACACGGCCTGGGTGGAGGCCACGC
GGAAGAAGGCGCTGCTGAAGCTGGAGAAGCTGGACACAGACCTGAAGAATAAAGGGCAACTCCATCAAAGAGA
GCATCCGCGCGGCCACGACGACCTGGGCGACCCTACCTGGACTGTGGGGACCTCAGCAACGCCCTCAAGTGCT
ATTCCCGGGCCCGGGACTACTGCACCAGCGCCAAACACGTCTCAACATGTGCCCTCAATGTATCAAGGTCAGCG
TCTACTTGCAGAATTGGTCTCATGTGCTCAGTACGTACGCAAGGCTGAGTCCACCCAGAGATTGCCGAGCAGC
GAGGAGAGCGTGACAGCCAGACCCAGGCCATCCTCACCAGCTCAAGTGTGCCGAGGCTTGGCAGAGCTGGCCG
CCAGGAAGTACAAGCAGGCTGCCAAGTGCCCTCCTGCTGGCTTCCTTTGATCACTGTGACTTCCCTGAGCTGCTGT
CCCCAGCAACGTGGCCATCTACGGTGGCCTGTGCGCCTTGGCTACCTTTGACCGGCAGGAGCTGCAGCGCAATG
TCATCTCCAGCAGCTCCTTCAAGTTGTTCTTGGAGCTGGAGCCACAGGTCCGAGACATCATCTTCAAATTCTACG
AGTCCAAGTACGCCTCATGTCTCAAGATGCTGGACGAGATGAAGGACAACCTGCTCCTGGACATGTATCTGGCCC
CCCATGTACAGGACCCTGTACACCCAGATTGCAACCGTGCCCTCATCCAGTATTTAGCCCCCTACGTGTCAGCCG
ACATGCATAGGATGGCGGCAGCCTTCAATACCACGGTGGCCGCCCTGGAGGACGAGCTGACGCAGCTAATCCTGG
AGGGGCTGATCAGTGCCCGTGTGGACTCACACAGCAAGATCCTATACGCCCGGGACGTGGATCAGCGCAGCACCA
CCTTTGAGAAGTCTCTGTTGATGGGCAAGGAGTTCCAGCGCCGCGCCAAGGCCATGATGCTGCGGGCAGCTGTGC
TCCGCAACCAGATCCATGTCAAGTCCCCGCCAGAGAAGGGAGCCAGGGGGAGCTGACTCCAGCCAACAGCCAGT
CCCGGATGAGCACCAACATGTGAGGGGTGAACCTTGGCCTCCAGGACATCTGCACCCCTCCCCACCTCCACGGA
CCTCGACCTCCAGGCGGCTCAGTGCTGCCTGCGGCCAGCTAAGGGGCTGGCCACTGGGTGCCACCCAGCCTG
TGTGCCCTCCCTGGGGCTGAGGAGGCAGGCGGCTGCTAGTTGTGGCCCTTCCTGGAAGGAGAGGCTGCAGGGCT
CGACCCTGTGGGTTTCTGTCCCCAGGGAGCAGACTGTGCGGCACCCAGGCCAGTGGCACCATTTCACAGACCC
TCCTGTTCCCGCCTCAGTCAGGTGCAGACAAGTGGGCGGTGTCCATTAAAGAGCAGACTCAGCGTT

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FIGURE 5009

MEVDGTPRRGGCKMPLPVQVFNLQGAVEPMQIDVDPQEDPQNAPDVNYVVENPSLDLEQYAASYSGLMRIERLQF
IADHCPILRVEALKMALS FVQRTFNVDMYEEIHRKLSEATRELQNAPDAIPESGVEPPALDTAWVEATRKKALK
LEKLDTDLKNYKGNSIKESIRRGHDDLGDHYLDCGDLNALKCYSRARDYCTSAKHVINMCLNVIKVSVYLNWS
HVLSYVSKAESTPEIAEQRGERDSQTQAILTKLKCAAGLAELAARKYKQAAKCLLLASFDHCDPELLSPSNVAI
YGGLCALATFDRQELQRNVISSSSFKLFLELEPQVRDIIFKFYESKYASCLKMLDEMKNLLLDMYLAPHVRTLY
TQIRNRALIQYFSPYVSADMRMAAAFNTTVAALEDELTQLILEGLISARVDSHSHKILYARDVDQRSTTFEKSLL
MGKEFQRRAKAMMLRAAVLRNQIHVKSPPREGSQGELTPANSQSRMSTNM

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FIGURE 5010A

ACGGCAGCGGCCCCGGCCTCCCTCTCCGCCGCGCTTCAGCCTCCCGCTCCGCCGCGCTCCAGCCTCGCTCTCCGC
CGCCCCGACCGCCGCGCCGCGCCCTACCCAGAGCAGCCATGGAGGAGGTGGTGATTGCCGGCATGTCCGGGAAGCT
GCCAGAGTCGGAGAACTTGCAGGAGTTCTGGGACAACCTCATCGGCGGTGTGGACATGGTCACGGACGATGACCG
TCGCTGGAAGGCGGCTCTACGGCCTGCCCGGCGGTCCGGCAAGCTGAAGGACCTGTCTAGGTTTGATGCCTCCT
TCTTCGGAGTCCACCCCAAGCAGGCACACAGATGGACCCTCAGCTGCGGCTGCTGCTGGAAGTCACCTATGAAG
CCATCGTGGACGGAGGCATCAACCCAGATTCACTCCGAGGAACACACACTGGCGTCTGGGTGGCGTGAGCGGCT
CTGAGACCTCGGAGGCCCTGAGCCGAGACCCCGAGACACTCGTGGGCTACAGCATGGTGGGCTGCCAGCGAGCGA
TGATGGCCAACCGGCTCTCCTTCTTCTTCGACTTCAGAGGGCCAGCATCGCACTGGACACAGCCTGCTCCTCCA
GCCTGATGGCCCTGCAGAACGCCTACCAGGCCATCCACAGCGGGCAGTGCCCTGCCGCCATCGTGGGGGGCATCA
ATGTCCTGCTGAAGCCCAACACCTCCGTGCAGTTCTTGAGGCTGGGGATGCTCAGCCCCGAGGGCACCTGCAAGG
CCTTCGACACAGCGGGGAATGGGTACTGCCCTCGGAGGGTGTGGTGGCCGCTCTGCTGACCAAGAAGTCCCTGG
CCCGGCGGGTGTACGCCACCATCCTGAACGCCGCGCACCAATACAGATGGCTTCAAGGAGCAAGGCGTGACCTTCC
CCTCAGGGGATATCCAGGAGCAGCTCATCCGCTCGTTGTACCAGTCGGCCGGAGTGGCCCCCTGAGTCATTTGAAT
ACATCGAAGCCACGGCACAGGCACCAAGGTGGGCGACCCCGAGGAGCTGAATGGCATCACCCGAGCCCTGTGCG
CCACCCGCCAGGAGCGCTGCTCATCGGCTCCACCAAGTCCAACATGGGGCACCCGGAGCCAGCCTCGGGGCTGG
CAGCCCTGGCCAAGGTGCTGCTGTCCCTGGAGCACGGGCTCTGGGCCCCAACCTGCACTTCCATAGCCCCAAC
CTGAGATCCAGCGCTGTTGGATGGGCGGCTGCAGGTGGTGGACAGCCCTGCCCGTCCGTGGCGGCAACGTGG
GCATCAACTCCTTTGGCTTCGGGGGCTCCAACGTGCACATCATCTGAGGCCAACACGCAGCCGCCCCCGCAC
CCGCCCCACATGCCACCCTGCCCGTCTGCTGCGGGCCAGCGGACGCACCCCTGAGGCCGTGAGAAGCTGCTGG
AGCAGGGCCTCCGGCACAGCCAGGACCTGGCTTCTTGAGCATGCTGAACGACATCGCGGCTGTCCCGCCACCG
CCATGCCCTTCCGTGGCTACGCTGTGCTGGGTGGTGAGCGGCTGGCCAGAGGTGCAGCAGGTGCCGCTGGCG
AGCGCCGCTCTGGTTCTGCTCTGGGATGGGCACACAGTGGCGCGGATGGGGCTGAGCCTCATGCGCCTGG
ACCGCTTCCGAGATTCCATCTACGCTCCGATGAGGCTGTGAAGCCATTGCGCCTGAAGGTGTCACAGCTGCTGC
TGAGCACAGACGAGAGCACCTTTGATGACATCGTCCATTGTTTGTGAGCCTGACTGCCATCCAGATAGGCCTCA
TAGACCTGCTGAGCTGCATGGGGCTGAGGCCAGATGGCATCGTCGGCCACTCCCTGGGGGAGGTGGCCTGTGGCT
ACGCCGACGGCTGCCTGTCCAGGAGGAGGCCGCTCTCGCTGCCTACTGGAGGGGACAGTGCATCAAAGAAGCCC
ATCTCCCGCCGGGCGCCATGGCAGCCGTGGGCTTGTCTGGGAGGAGTGTAACAGCGCTGCCCCCGGGCGTGG
TGCCCGCCTGCCACAACCTCCAAGGACACAGTCACCATCTCGGGACCTCAGGCCCGGTGTTTGAGTTCGTGGAGC
AGCTGAGGAAGGAGGTGTGTTTGCCAAGGAGGTGCGGACCGCGGTATGGCCTTCCACTCCTACTTTCATGGAGG
CCATCGCACCCCCACTGCTGCAGGAGCTCAAGAAGGTGATCCGGGAGCCGAAGCCAGTTTCAGCCCGCTGGCTCA
GCACCTCTATCCCCGAGGCCAGTGGCACAGCAGCCTGGCACGCAGTCTCCGCCGAGTACAATGTCAACAACC
TGGTGAGCCCTGTGCTGTTCAGGAGGCCCTGTGGCACGTGCCCTGAGCACGCGGTGGTGTGGAGATCGCGCCCC
ACGCCCTGCTGCAGGCTGTCTGAAGCGTGGCCTGAAGCCGAGCTGCACCATCATCCCCCTGATGAAGAAGGATC
ACAGGGACAACCTGGAGTTCTTCTGGCCGGCATCGGCAGGCTGCACCTCTCAGGCATCGACGCCAACCCCAATG
CCTTGTTCCACCTGTGGAGTTCCAGCTCCCGAGGAAGTCCCTCATCTCCCCACTCATCAAGTGGGACCACA
GCCTGGCCTGGGACGTGCCGCGCGGAGGACTTCCCCAACGGTTCAGGTTCCCCCTCAGCCGCCATCTACAACA
TCGACACCAGCTCCGAGTCTCTGACCACTACCTGGTGGACCACACCCCTCGACGGTCGCGTCTCTTCCCCGCCA
CTGGCTACCTGAGCATAGTGTGAAGACGCTGGCCCGCGCCCTGGGCTGGGCGTCGAGCAGCTGCCCTGTGGTGT
TTGAGGATGTGGTGTGCACACGGCCACCATCTGCCCAAGACTGGGACAGTGTCCCTGGAGGTACGGCTCCTGG
AGGCCTCCCGTGCCCTTCGAGGTGTGAGAGAACGGCAACCTGGTAGTGAGTGGGAAGGTGTACCAAGTGGGATGACC
CTGACCCAGGCTCTTCGACACCCGGAAGCCCCACCCCAACCCACGGAGCCCTCTTCTGGCCAGGCTG
AAGTTTACAAGGAGCTGCGTGTGCTGGCTACGACTACGGCCCTCATTTCCAGGGCATCCTGGAGGCCAGCCTGG
AAGGTGACTCGGGGAGGCTGCTGTGGAAGGATAACTGGGTGAGCTTCATGGACACCATGCTGCAGATGTCCATCC
TGGGCTCGGCCAAGCACGGCCTGTACCTGCCCACCCGTGTACCGCCATCCACATCGACCCCTGCCACCCACAGGC
AGAAGCTGTACACACTGCAGGACAAGGCCCAAGTGGCTGACGTGGTGGTGGAGGAGGTGGCTGAGGGTTCAGATGG
CCGGAGGCGTCCACATCTCCGGGCTCCACACTGAGTCGGCCCCGCGGCGGCGAGCAGGAGCAGAGGTGCCCATCC
TGGAGAAGTTTTGCTTCACTCCCCACACGGAGGAGGGGTGCCTGTCTGAGCGCGCTGCCCTGCAGGAGGAGCTGC
AACTGTGCAAGGGGCTGGTGCAGGCACTGCAGACCAAGGTGACCCAGCAGGGGCTGAAGATGGTGGTGGCCGGAC

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FIGURE 5010B

TGGATGGGGCCCAGATCCCCGGGACCCCTCACAGCAGGAAGTCCCCGGCTGTTGTGGCTGCCTGCAGGCTTC
AGCTCAACGGGAACCTGCAGCTGGAGCTGGCGCAGGTGCTGGCCCAGGAGAGGCCCAAGCTGCCAGAGGACCCCTC
TGCTCAGCGGCCTCCTGGACTCCCCGGCACTCAAGGCCTGCCTGGACACTGCCGTGGAGAATATGCCAGCCTGA
AGATGAAGGTGGTGGAGGTGCTGGCTGGCCACGGTCACCTGTATTCCCGCATCCAGGCCTGCTCAGCCCCCATC
CCCTGCTGCAGCTGAGCTACACGGCCACCGACCGCCACCCCAAGGCCCTGGAGGCTGCCAGGCCGAGCTGCAGC
AGCACGACGTTGCCAGGGCCAGTGGGATCCCGCAGACCCTGCCCCAGCGCCCTGGGAGCGCCGACCTCCTGG
TGTGCAACTGTGCTGTGGCTGCCCTCGGGGACCCGGCCTCAGCTCTCAGCAACATGGTGGCTGCCCTGAGAGAAG
GGGGCTTTCTGCTCCTGCACACACTGCTCCGGGGGACCCCTCGGGGACATCGTGGCCTTCTCACCTCCACTG
AGCCGAGTATGGCCAGGGCATCCTGAGCCAGGACGCGTGGGAGAGCCTCTTCTCCAGGGTGTGCTGCGCCTGG
TGGGCTGAAGAAGTCTTCTACGGCTCCACGCTCTTCTGTGCCGCCGGGCCACCCCGCAGGACAGCCCCATCT
TCTGCGGGTGGACGATACAGCTTCCGCTGGGTGGAGTCTCTGAAGGGCATCCTGGCTGACGAAGACTCTTCCC
GGCCTGTGTGGCTGAAGGCCATCAACTGTGCCACCTCGGGCGTGGTGGGCTTGGTGAAGTGTCTCCGCCGAGAGC
CCGGCGGGAACCGCCTCCGGTGTGTGCTGCTCTCAACCTCAGCAGACCTCCACGTCCTGGAGGTGGACCCGG
GCTCCGCAGAACTGCAGAAGGTGTTGCAGGGAGACCTGGTGTGAACGTCTACCGCGACGGGGCTGGGGGGCTT
TCCGCCACTTCTGCTGGAGGAGGACAAGCCTGAGGAGCCGACGGCACATGCCCTTGTGAGCACCTCACCCGGG
GGGACCTGTCTCCATCCGCTGGGTCTGCTCCTCGCTGCGCCATGCCAGCCACCTGCCCTGGCGCCAGCTCT
GCACGGTCTACTACGCCTCCCTCAACTTCCGCGACATCATGCTGGCCACTGGCAAGCTGTCCCTGATGCCATCC
CAGGGAAGTGGACCTCCAGGACAGCCTGTAGGTATGGAGTTCTCGGGCCGAGACGCCAGCGGCAAGCGTGTGA
TGGGACTGGTGCCTGCCAAGGGCCTGGCCACCTCTGTCTGTGTACCGGACTTCTCTGGGATGTGCTTCCA
ACTGGACGCTGGAGGAGGCGGCCTCGGTGCCTGTGCTGTACAGCACGGCCTACTACGCGCTGGTGGTGGTGGG
GGGTGCGCCCCGGGAGACGCTGCTCATCCACTCGGGCTCGGGCGGCGTGGGCCAGGCCCATCGCCATCGCCC
TCAGTCTGGGCTGCCGCTTCTACACCGTGGGGTGGCTGAGAAGCGGGCGTACCTCCAGGCCAGGTTCCCC
AGCTCGACAGCACCAGCTTCGCCAACTCCCGGACACATCCTTCGAGCAGCATGTGCTGTGGCACAGGGCGGGA
AGGGCGTTGACCTGGTCTTGAAGTCTTGGCGGAAGAGAAGCTGCAGGCCAGCGTGAGGTGCTTGGCTACGCACG
GTGCTTCTTGGAAATTGGCAAATTGACCTTCTCAGAACCACCCGCTCGGCATGGCTATCTTCTGAAGAAGC
TGACATTCCAGGGGTCTACTGGATGCGTTCTTCAACGAGAGCAGTGTGCTGACTGGCGGGAGGTGTGGGCGCTTG
TGCAGGCCGCATCCGGGATGGGGTGGTACGGCCCTCAAGTGCACGGTGTTCATGGGGCCAGGTGGAGGACG
CCTTCCGCTACATGGCCCAAGGGAAGCACATTGGCAAAGTCGTGTCAGGTGCTTGGGAGGAGCCGGAGGCAG
TGCTGAAGGGGGCCAAACCAAGCTGATGTGGCCATCTCCAAGACCTTCTGCCCGGCCCAAGAGCTACATCA
TCGCTGGTGGTCTGGGTGGCTTCGGCTGGAGTTGGCGCAGTGGCTGATACAGCGTGGGGTGCAGAAGCTCGTGT
TGACTTCTCGCTCCGGGATCCGGACAGGCTACCAGGCCAAGCAGGTCCGCCGGTGGAGGCGCCAGGGCGTACAGG
TGCAGGTGTCCACCAGCAACATCAGCTCACTGGAGGGGGCCCGGGGCTCATTGCCAGGCGGCGCAGCTTGGGC
CCGTGGGCGGCGTCTTCAACCTGGCCGTGGTCTTGAGAGATGGCTTGTGAGAGAACCAGACCCAGAGTTCTTCC
AGGACGCTGCAAGCCCAAGTACAGCGGCACCCTGAACCTGGACAGGGTGACCCGAGAGGCGTGCCTGAGCTGG
ACTACTTTGTGGTCTTCTCCTCTGTGAGCTGCGGGCGTGGCAATGCGGGACAGAGCAACTACGGCTTGCCAATT
CCGCCATGGAGCGTATCTGTGAGAAACGCCGGCACGAAGGCCTCCAGGCCTGGCCGTGCAGTGGGGCGCCATCG
GCGACGTGGGCATTTTGGTGGAGACGATGAGCACCACGACACGATCGTCAAGTGGCAGCTGCCCCAGCGCATGG
CGTCTGCCTGGAGGTGCTGGACCTCTTCTGAACCAGCCACATGGTCTGAGCAGCTTTGTGCTGGCTGAGA
AGGCTGCGGCCTATAGGGACAGGACAGCCAGCGGGACCTGGTGGAGGCGGTGGCACACATCCTGGGCATCCGCG
ACTTGGCTGTGTCAACCTGGACAGCTCACTGGCGGACCTGGGCTGGACTCGCTCATGAGCGTGGAGGTGCGCC
AGACGCTGGAGCGTGAGCTCAACCTGGTGTGTCCGTGCGCGAGGTGCGGCAACTACGCTCCGGAAGTGCAGG
AGCTGTCTCAAAGGCGGATGAGGCCAGCGAGCTGGCATGCCCCAGCCCAAGGAGGATGGTCTGGCCAGCAGC
AGACTCAGCTGAACCTGCGCTCCCTGCTGGTGAACCCGAGGGCCCCACCCTGATGCGGCTCAACTCCGTGCAGA
GCTCGGAGCGGCCCCCTGTTCTGGTGCACCAATCGAGGGCTCCACCACCGTGTTCACAGCCTGGCTTCCGGC
TCAGCATCCCCACCTATGGCCTGCAGTGCACCGAGCTGCGCCCTTGACAGCATCCACAGCCTGGCTGCCTACT
ACATCGACTGCATCAGGAGGTGCAGCCCCAGGGCCCCCTACCGCTGGCCGGCTACTCCTACGGGGCTGCGTGG
CCTTTGAAATGTGCTCCAGCTGCAGGCCAGCAGAGCCAGCCCCACCCACAACAGCCTCTTCTGTTTCGACG
GCTCGCCACCTACGTACTGGCCTACACCCAGAGCTACCGGGCAAAGCTGACCCAGGCTGTGAGGTGAGGCTG

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FIGURE 5010C

AGACGGAGGCCATATGCTTCTTCGTGCAGCAGTTCACGGACATGGAGCACAACAGGGTGCTGGAGGCGCTGCTGC
CGCTGAAGGGCCTAGAGGAGCGTGTGGCAGCCGCCGTGGACCTGATCATCAAGAGCCACCAGGGCCTGGACCGCC
AGGAGCTGAGCTTTGCGGCCCCGTCTTCTACTACAAGCTGCGTGCCGCTGAGCAGTACACACCCAAGGCCAAGT
ACCATGGCAACGTGATGCTACTGCGCGCCAAGACGGGTGGCGCCTACGGCGAGGACCTGGGCGCGGACTACAACC
TCTCCCAGGTATGCGACGGGAAAGTATCCGTCCACGTCATCGAGGGTGACCAACGCACGCTGCTGGAGGGCAGCG
GCCTGGAGTCCATCATCAGCATCATCCACAGCTCCCTGGCTGAGCCACGCGTGAGCGTGCGGGAGGGCTAGGCCC
GTGCCCCCGCCTGCCACCGGAGGTCACTCCACCATCCCCACCCACCCACCCACCCCGCCATGCAACGGGAT
TGAAGGGTCTGCGGGTGGGACCCTGTCCGGCCCAGTGCCACTGCCCCCGAGGCTGCTAGATGTAGGTGTTAGG
CATGTCCCACCCACCCGCCCTCCACGGCACCTCGGGGACACCAGAGCTGCCGACTTGGAGACTCCTGGTCTG
TGAAGAGCCGGTGGTGCCCGTGCCCGCAGGAAGTGGGCTGGGCCTCGTGCGCCCGTGGGGTCTGCGCTTGGTCTT
TCTGTGCTTGGATTGTCATATTTATTGCATTGCTGGTAGAGACCCCCAGGCCTGTCCACCCTGCCAAGACTCCTC
AGGCAGCGTGTGGGTCCCGCACTCTGCCCCATTTCCCCGATGTCCCTGCGGGCGCGGGCAGCCACCCAAGCCT
GCTGGCTGCGGCCCCCTCTCGGCCAGGCATTGGCTCAGCCCGCTGAGTGGGGGGTCTGGGGCCAGTCCCCGAGGA
GCTGGGCCCCTGACAGGCACACAGGGCCCGGCCACACCCAGCGGGCCCCCGCACAGCCACCCGTGGGGTGTGTC
CCTTATGCCCCGCGCCGGGCACCAACTCCATGTTTGGTGTGTTGTCTGTGTTTGTGTTTTCAAGAAATGATTCAAAT
TGCTGCTTGGATTTTGAATTTACTGTAAGTGTACAGTCTGGACCCCGTTTCATTTTACACCAATTT
GGTAAAAATGCTGCTCTCAGCCTCCCAATTAACCGCATGTGATCTCC

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FIGURE 5011

CAGGGAGTGCCTGCAGCACCCCGGGGGGCCACCCAGTCTGCGTGTACACGAGGGATGAGGTGACGGGTGAAGC
TGCCCTGCGGGGCACGACGCTGCAGTCGCTGGGCCTGACCGGGGGCAGCGCCACCATCAGGTTTGTCATGAAGTG
CTACGACCCCGTGGGCAAGACCCAGGAAGCCTGGGCTCGTCAGCGTCGGCTGGCCAGGCAGCCGCCAGCGCTCC
ACTTCCCTTGGAATCTGGGGAGCTCAGCCGCGGCGACTTGAGCCGTCCGGAGGACGCGGACACCTCAGGGCCCTG
CTGCGAGCACACTCAGGAGAAGCAGAGCACAAGGGCACCCGCAGCTGCCCCCTTGTTCCTTTCTCGGGTGGGGG
ACAGAGACTGGGGGGCCCTCCTGGGCCCACGAGGCCTCTGACATCATCTTCAGCTAAGTTGCCGAAGTCCCTCTC
CAGCCCTGGAGGCCCTCCAAGCCAAAGAAGTCCAAGTCGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCG
GGAGCGGGATCCCCAGCAGGAGCAGGAGCGGGAGCGGCCCTGGACCGGGAGCCCGTGGACCGGGAGCCGGTGGT
GTGCCACCCCGACCTGGAGGAGCGGCTGCAGGCCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGT
GGACGACGTGAGAAGACGCTTGGCCCAGCTCAAGAGTGAGCGGAAGCGCCTGGAAGAAGCCCCCTTGGTGACCAA
GGCCTTCAGGGAGGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGGTGGCTCTGAGGGTCTGTTCCTCCGA
CCGCTACGTCTACAGGGCTTCTTCCGCCCCAGCGAGACAGGTGGGGGACTTGCAGACTTTCGTGAGGAGCCACC
TGGGGAAACCCGAGCTGTCAATTTTACCTGTTTCATCACCCCTCCAAAAACAGTCCTGGACGACCACACGCAGACCC
TCTTTAGGCGAACCTCTTCCCGGCGCTCTGGTGCCTTGGGAGCCGAAGAGCCGGCAGGTGTCTACCTGGAGC
CTGGCCTGCTGGAGCATGCCATCTCCCCATCTGCGGCCGATGTGCTGGTGGCCAGGTACATGTCCAGGGCCGCCG
GGTCCCTTCCCCATTGCCAGCCCCTGACCCTGCACCTAAGTCTGAGCCAGCTGCTGAGGAGGGGGCGCTGGTCC
CCCCTGAGCCCATCCCAGGGACGGCCCAGCCCGTGAAGAGGAGCCTGGGCAAGGTGCCAAGTGGCTGAAGCTGC
CGGCCAGCAAGAGGTGAGAGCTGCCAGCCTGAGGTGCCACTCCGCCAGCCACAGGACCACCTCCTCTGCCAGCA
GGAATAAAGACTTGTGCATCCCTC

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FIGURE 5012

MKCYDPVGKTPGSLGSSASAGQAAASAPLPLESGELSRGDLSPEDADTSGPCCEHTQEKQSTRAPAAAPFVPFS
GGGQRLGGPPGPTRPLTSSSAKLPKSLSSPGGPSKPKKSKSGQDPQQEQEQERERDPQQEQERERPVDREPVDRE
PVVCHPDLEERLQAWPAELPDEFFELTVDDVRRRLAQLKSERKRLEEAPLVTKAFREAQIKEKLERYPKVALRVL
FPDRYVLQGFFRPSETGGGLARLREEFPGEPRAVILPVHHPKNSPGRPHADPLSGEPLPGRSGALGSRRAGRCL
PGAWPAGACHLPICGRCAGGQVHVQGRRVPFPIASP

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FIGURE 5013

GACCCCTCCTCTGTAGAGAGTGGTGCTGCCCTCTCGGGATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGC
CTCCATCTGAAGAGGGCTCCAGGCATCCGGTCCCTGGTCCCTGCTGGTTGGAATCTTGTCGATTGGCCTGGCTGCT
GCCTACTACAGCGGAGATAGCCTGGGCTGGAAGCTCTTCTACGTACAGGCTGCCTGTTTGTGGCTGTGCAGAAC
TTGGAGGACTGGGAGGAAGCCATCTTCGACAAGAGCACAGGGAAGGTTGTTTTGAAGACGTTACAGCTCTACAAG
AAGCTGCTGACTCTTTTTCAGAGCTGGCCACGACCAGGTGGTGGTCTGCTCCATGATGTCCGTGATGTGAGCGTG
GAGGAGGAGAAGGTCCGGTACTTCGGGAAAGGCTACATGGTGGTCTCCGGCTTGCAGCGGGCTTCTCCACCCC
CTCACGCAGAGTGCAGTCACTGGGCCACCGCAGTGATGTGGAAGCATCGCCAAGCTCATCACCAGCTTCTTGAGC
TGCACTGCCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGGCCGGTGACCCTGCAAGCCAGAGCT
GACAGCCCCACTGTGCCTGAGCCGTGCACCGCCCCACAGGACCCATGGCACATTCCCGGTGTGCCTGAGCCCGTG
CACCGCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCGCCCCACAGGACCCGTGGCACATT
CCCGGTGTGCCTGAGCCCGTGACCGCCCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCGC
CCACAGGACCCGTGGCCTTGGCTTCAGTTGGTGCCTCCAGCCGAGTTGGCCTATTGCCTGCTCATGCTGCTGCTT
GCACACTGCATGAAACAGCAGGCCAGACCAGGACATCCAGACTTTCTCCATCGTGAGGCCTGGGCCTGCCTTTCT
GCAGCCGGAGGTCTCGCCAGCCCTGGACTCCTGCTTTGGGCCACAGCAAGACCTCGGGCGAGTGAGAGGGCGGGG
CCAGGCCGGGCCCTTGTGGGTGCTGATGCTGCATGTTGTCCCCGACACAGCGTCCTCTCCCTGGTGGACATCCCC
AGCGGTCAAGGTGCTTCCCCAAGGGCAGTGAGGGGTGAACATCCAGGGCCTACCTGGCTGTGCACGCTGCAGCCAC
ACTGTGGAAGCTGCCCCCTCCCCGAGGACCCGCTCCCTTGCTGATGCCAGGATCTCAGCGCATAGACCACTCTGC
CCCAGCGGTCTGCACAGAAAGGTCTCTGTTCCTCAGCTTCAGCATAAGCTGTGAGGCCAGAAAAAAG
GTCAGCTCTTCTAGTATCGTGCAGTGCTTAAAAACCGGGAGCTCCAGCCGGGCGCAGTGGTTTATGCCAGTAATC
CCAGCACTTTTCGGAGGCCGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACACAGCAA
GATCCTGTCTTTGTAAAAAACTAACCACAGGAAAACTGGGAGATTTTCTGCAGAAATTGAGTTCCAGCCTC
TCTCGAACCTGGGAAGACCTGGCAGGAGGGGGCTGGGCTCTCGGCTACAGACTTCTCCCCACCCGTAGGAGCTG
AACGCCAACCATCCTGACCGCCAGTGCTCTTGGTCTCCTGAGTGTACCCAGGTCTCCAGGTGCGGTGTGCAC
CGAGCGCGCTGGCCTGATGCCCTGGCCTGTGAGCTGGGACTCCTGGGCCCTGTGAGCCCTAGGCGCAGGCCC
AGGAATGGCTGGGTAGGACAGGGAACACCTTTGCCCCACGTCTGGCTGTGACCTCGGTGAAAGCCGACAGGAGAG
AGATGGACCTCCTCCTCAGTAGTGGCTGCCAGTCCCTCGTTGCAGGACAGGGTCATCATAACCATAAATAACCC
TTCAGTGTC

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FIGURE 5014

GCGTCGGGGGAGGACAACAAAGGGCCGCGGGCGGGCAGTGGTGTCCCAGTCTCCCGGTGCTTCCCTGAGGCT
GAGGCGCCCGGCCTCCCGCCCGCGCGCTCCAGATGAAGTGTGAGCACTGCACGCGCAAGGAATGTAGTAAGAAA
ACAAAACTGATGACCAAGAGAATGTGTACGCCGATGCACCGAGTCCAGCCCAGGAAAATGGAGAGAAGGGAGAA
TTCCACAAGTTGGCTGATGCCAAGATATTTTTGAGCGACTGCCTGGCATGTGACAGCTGTATGACTGCAGAGGAA
GGAGTCCAACTTTTCCAGCAAAATGCCAAGGACTTCTTCCGCGTTCTGAACCTTAACAAGAAATGTGATACCTCA
AAGCACAAAGTGCTGGTAGTGTCTGTGTCTCTCAATCTTTGCCTTATTTTGTCTGCTAAATTCAACCTCAGTGTA
ACTGATGCATCCAGAAGACTCTGTGGTTTTCTCAAAAGTCTTGGGGTGCCTATGTATTTGATACGACGATAGCT
GCGGATTTTAGTATCCTGGAGAGTCAAAAAGAATTCGTGCGTCGCTATCGCCAGCACAGTGAGGAGGAACGCACC
CTGCCCATGCTGACCTCTGCCTGTCTGGCTGGGTCCGATACGCCAGCGGGTGCTGGGTGCGCCCATCACTGCC
CACCTCTGCACCGCCAAGTCCCCCAGCAGGTCATGGGCTCTTTGGTGAAGGATTATTTGCGCCAGACAGCAGAAC
CTGTCTCCAGAGAAGATTTTCCACGTCATTGTGGCCCTTGTATGACAAGAAGCTGGAGGCTCTTCAGGAAAGC
CTTCCCCCTGCTTTGCTGCTGCCGCGGCGCTGACTGCGTGTAAACATCAGAAATTAGCCAGGCGTGGTGGTGC
ACACCTGTGATCACAGCTACTCGGGAGGCTGCGGCAAGAGAATCACTTGAACCCGGGAGGCAGAGGTTACAGCGA
GACAAGATTGCACCACTGGACTCCAGCCTGGGCGGCGGAGGTGAAATTGCTCAAATAATGGAGCAAGGTGACCTC
TCAGTGAGAGATGCTGCCGTCGACACTCTGTTTGGAGACTTGAAGGAGGACAAAGTGACGCGTCATGATGGAGCC
AGCTCAGACGGGCACCTGGCACACATCTTCAGACATGCGGCCAAGGAGCTGTTCAACGAGGATGTGGAGGAGGTC
ACTTACCGAGCCCTGAGAAACAAAGACTTCCAAGAGGTACCCCTTGAGAAGAACGGAGAGGTGGTGTACGCTTT
GCTGCAGCCTATGGCTTTCGAAACATCCAGAACATGATCCTGAAGCTTAAGAAGGGCAAGTTCCCATTTCACTTT
GTGGAGGTCCTCGCTGTGCTGGAGGATGCTTAAATGGCAGAGGCCAAGCCCAGACTCCAGACGGACATGCGGAT
AAGGCCCTGCTGCGGCAGATGGAAGGCATTTACGCTGACATCCCTGTGCGGCGTCCGGAGTCCAGTGCACACGTG
CAGGAGCTGTACCAGGAGTGGCTGGAGGGGATCAACTCCCCCAAGGCCCGAGAGGTGCTGCATACCACGTACCAG
AGCCAGGAGCGTGGCACACACAGCCTGGACATCAAGTGGTGAAGTCAGGCCAGGGCCTTCAGCTGCTCTTGGGG
CCAGAGCCAAGAGCCTCTCAGTAGAGGGAGGGGCTGCCCTGAGTGGAGTATTAAAGACACTTAAGAAAACCGCTC
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5015

MKCEHCTRKECSKKTKTDDQENVVSADAPSPAQENGEKGEFHKLADAKIFLSDCLACDSCMTAEEGVQLSQQNAKD
FFRVLNLNKKCDTSKHKVLVSVCPQSLPYFAAKFNLSVTDASRRLCGFLKSLGVHYVFDTTIAADFSILESQKE
FVRRYRQHSEEERTLPMLTSACPGWVRYAERVLRPITAHLC TAKSPQQVMGSLVKDYFARQQNLSPEKIFHVIV
APCYDKKLEALQESLPPALHGSRGADCVL TSEISQAWWCTPVITATREAAA RESLEPGRQRLQRDKIAPLDSSLG
GGGEIAQIMEQGDLSVRDAAVDTLFGDLKEDKVTRHDGASSDGH LAHIFRHA AKELFNEDVEEV TYRALRNKDFQ
EVTLEKNGEVVLRF AAAYGFRNIQN MILKLKKGKFPFHFVEVLACAGGCLNGRGQAQTPDGHADKALLRQMEGIY
ADIPVRRPESSAHVQELYQEWLEGINSPKAREVLHTTYQSQERGTHSLDIKW

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FIGURE 5016

CGTCAAGCTTGGCACGAGGCCATGGAGCAGCTGCTGCGCGCCGAGCTGCGCACCGCGACCCTGCGGGCCTTCGGC
GGCCCCGGCGCCGGCTGCATCAGCGAGGGCCGAGCCTACGACACGGACGCAGGCCCAGTGTTTCGTCAAAGTCAAC
CGCAGGACGCAGGCCCGGCAGATGTTTGAGGGGGAGGTGGCCAGCCTGGAGGCCCTCCGGAGCACGGGCCTGGTG
CGGGTGCCGAGGCCCATGAAGGTCATCGACCTGCCGGGAGGTGGGGCCGCCTTTGTGATGGAGCATTGAAGATG
AAGAGCTTGAGCAGTCAAGCATCAAACTTGGAGAGCAGATGGCAGATTTGCATCTTTACAACCAGAAGCTCAGG
GAGAAGTTGAAGGAGGAGGAGAACACAGTGGGCCGAAGAGGTGAGGGTGCTGAGCCTCAGTATGTGGACAAGTTC
GGCTTCCACACGGTGACGTGCTGCGGCTTCATCCCGCAGGTGAATGAGTGGCAGGATGACTGGCCGACCTTTTTC
GCCCCGCACCGGCTCCAGGCGCAGCTGGACCTCATTGAGAAGGACTATGCTGACCGAGAGGCACGAGAACTCTGG
TCCCGGCTACAGGTGAAGATCCCGGATCTGTTTTGTGGCCTAGAGATTGTCCCCGCGTTGCTCCACGGGGATCTC
TGGTCGGGAAACGTGGCTGAGGACGACGTGGGGCCCAATTATTTACGACCCGGCTTCCTTCTATGGCCATTCCGAG
TTTGAAGTGGCAATCGCCTTGATGTTTGGGGGGTTCCCCAGATCCTTCTTACCGCCTACCACCGGAAGATCCCC
AAGGCTCCGGGCTTCGACCAGCGGCTGCTGCTTACCAGCTGTTTAACTACCTGAACCACTGGAACCACTTCGGG
CGGGAGTACAGGAGCCCTTCCTTGGGCACCATGCGAAGGCTGCTCAAGTAGCGGCCCTGCCCTCCCTTCCCCTG
TCCCCGTCCCCGT

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FIGURE 5017

MEQLLRAELRTATLRAFGGPGAGCISEGRAYDTDAGPVFVKVNRRTQARQMFEGEVASLEALRSTGLVRVPRPMK
VIDLPGGGA AFVMEHLKMKSLSSQASKLGEQ MADLHLYNQKLREKLKEEENTVGRRGEGAEPQYVDKFGFHTVTC
CGFIPQVNEWQDDWPTFFARHRLQAQLDIEKDYADREARELWSRLQVKIPDLFCGLEIVPALLHGDWLSGNVAE
DDVGPIIYDPASFYGHSEFELAIALMFGGFERSFFTAYHRKIPKAPGFDQRLLLYQLFNLYLNHWNHFGREYRSPS
LGTMRRLK

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FIGURE 5018

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCCAGGGC
ACCTTCAAAGTGAAGTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGAACGTGATG
TTCTCTTCCCGGGGTACACCCATTTGCAGAGGGCCCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCCG
TGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCCTGCCCTGGGGAGGTGGG
GCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCTC
AACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCAT
CTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTGAGCTTCGTGCAGCTCTCAGATGCCTAC
AGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCGT
GTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGAG
GACAAGGAAGCTGTGTTTGAAGTGTGAGACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTACG
CTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCTATTACCTG
GTCCGCAAAGGGATGCCATTCCGCCAGGCCCCAGAGGCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGGG
GTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGTG
TGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCCACTGGCAGATC
CGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCTCTCCACACCTGCCCCCTAATAAAGTGGGCGCG
AG

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FIGURE 5019

GCGGACCCAGAGAGCCCTGAGCAGCCCCGCCGTGCCGGCCTAGTTACCGTCATACCACGGGAGGAGCCGCAGC
TGCCGCAGCCGGCCCCAGTCTCCATCACCGCAACCAATGAGCAGCAAGGCCGAGACCCAGCAGCCACCCGCCGCC
CCCCGCTTTCCCCCACC GCCCCCCCTCCCGTCCCCCGCCGCCCGCCCTCAGCGCCGCCGACACCAAGCCCGG
CACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGGCGGCTCACATCGGCGGCGCCTGCCAGCGTGGACAAGAA
GGTCATCGCAGTGAAGGTTTTGGGAACAGTAAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAA
TGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGG
AGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCGGAGGCAGCAAATGTTACAGATCCTGG
TGGTGTTCAGTTCAAGGCAGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCACGTCATAGGGGTCC
TCCACGCAATTACCAGCAAAAATTACCAGAACAGTGAGAGTGGGGAAAAGACCGAGGGATCGGAGAATGCTCCCGA
AGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCACCTTACTACATGTGGAGACCCTGTGGGTG
TCGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCAGGAGAACA
AGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTCCTTGCCAAAGACA
GCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGG
TACCGCAGCAACTTCAATTACCAACGCAGATGCCAGAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCA
GCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAGTAAATGCCGGCTTACCAT
CTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCCAGCAATAAGAAATGAACAAAAGATT
GGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCGTTGACCAGATAAATAGAACTATCTGCATTATCTATGCAGC
ATGGGGTTTTTATTATTTTACCTAAATATGTCTCTTTTTGGTAATAACAAACGTGTTTTTTTTAAAAAGCCTTG
TTTTTCTCAATACGCCTTTTAAAGGTTTTTAAATTGTTTCATATCTGGTCAAGATGAGATTTTTTAAGCACTTTATT
TTTAATTTGTAATAAAAAGTTTACAACCTGATTTTTTCAAAAAGTCAACAACTGCAAGCACCTGTTAATAAAGG
TCTTAAATAATAATAATAAAAA

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FIGURE 5020

CCGCGCCACTTGGCCTGCCTCCGTCCCGCCGCGCCACTTCGCCTGCCTCCGTCCCCGCCCCGCGGCCATGCCT
GTGGCCGGCTCGGAGCTGCCGCGCCGGCCCTTGCCCCCGCCGCACAGGAGCGGGACGCCGAGCCGCGTCCGCCG
CACGGGGAGCTGCAGTACCTGGGGCAGATCCAACACATCCTCCGCTGCGGCGTCAGGAAGGACGACCGCACGGGC
ACCGGCACCCTGTCCGTATTCCGGCATGCAGGCGCGCTACAGCCTGAGAGATGAATTCCCTCTGCTGACAACCAAA
CGTGTGTTCTGGAAGGGTGTGTTTGGAGGAGTTGCTGTGGTTTATCAAGGGATCCACAAATGCTAAAGAGCTGTCT
TCCAAGGGAGTGAATACTGGGATGCCAATGGATCCCGAGACTTTTGGACAGCCTGGGATTCTCCACCAGAGAA
GAAGGGGACTTGGGCCCAGTTTATGGCTTCCAGTGGAGGCATTTTGGGGCAGAATACAGAGATATGGAATCAGAT
TATTCAGGACAGGGAGTTGACCAACTGCAAAGAGTGATTGACACCATCAAACCAACCCTGACGACAGAAGAATC
ATCATGTGCGCTTGAATCCAAGAGATCTTCTCTGATGGCGCTGCCTCCATGCCATGCCCTCTGCCAGTTCTAT
GTGTTGAACAGTGAGCTGTCTGCCAGCTGTACCAGAGATCGGGAGACATGGGCCTCGGTGTGCCTTTCAACATC
GCCAGCTACGCCCTGCTCAGTACATGATTGCGCACATCACGGGCCTGAAGCCAGGTGACTTTATACACACTTTG
GGAGATGCACATATTTACCTGAATCACATCGAGCCACTGAAAATTCAGCTTCAGCGAGAAGCCAGACCTTTCCCA
AAGCTCAGGATTCTTCGAAAAGTTGAGAAAATTGATGACTTCAAAGCTGAAGACTTTCAGATTGAAGGGTACAAT
CCGCATCCAATAATTAATAATGGAATGGCTGTTTAGGGTGCTTTCAAAGGAGCTCGAAGGATATTGTCAGTCTTT
AGGGGTTGGGCTGGATGCCGAGGTAAAAGTTCTTTTGTCTAAAAGAAAAAGGAAGTAAAGTCAAAAATCTGTCC
GTGACCTATCAGTTATTAATTTTAAAGGATGTTGCCACTGGCAAATGTAAGTGTGCCAGTTCTTTCCATAATAAA
AGGCTTTGAGTTAACTCACTGAGGGTATCTGACAATGCTGAGGTTATGAACAAAGTGAGGAGAATGAAATGTATG
TGCTCTTAGCAAAAACATGTATGTGCATTTCATCCACGTACTTATAAAGAAGGTTGGTGAATTCACAAGCTA
TTTTTGAATATTTTGAATATTTTAAAGATTTTACAAGCTATTCCTCAAATCTGAGGGAGCTGAGTAACACC
ATCGATCATGATGTAGAGTGTGGTTATGAACTTAAAGTTATAGTTGTTTTATATGTTGCTATAATAAAGAAGTG
TTCTGC

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FIGURE 5021

TAAAAACAGGGAATGACTCTACTAATGATGGGGTCAGCAGATGCTCTTCCAGAAGAACCCTCAGCCAAAACCTGTC
TTCGTAGAAGACATGACAGAAGAACAGTTAGCATCTGCTATGGAGTTACCATGTGGATTGACAAACCTTGGTAAC
ACTTGTACATGAATGCCACAGTTTCACTGTTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCA
GGTGCCTTGAGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTGTTTGATTCC
ATGGATAAAACCTTCTTCCAGTATTCCACCTATTATTCTACTGCAGTTTTTGCACATGGCTTTCCACAGTTTGCC
GAGAAAGGTGAACAAGGACAGTATCTTCAACAGGATGCTAATGAATGTTGGATACAAATGATGCGAGTATTGCAA
CAGAAATTGGAAGCAATAGAGGATGATTCTGTAAAGAGACAGACTCCTCATCTGCATCGGCAGCGACACCTTCT
AAAAAGAAAAGTTTAAATCGATCAGTTCTTCGGTGTGAGTTTGAAGTAACTACCATGAAATGTACAGAATCTGAAGAA
GAAGAAGTCACCAAAGGAAAGGAAAATCAACTTCAGCTTAGCTGTTTTATCAATCAGGAAGTCAAGTATCTTTTT
ACAGGACTTAAATTGCGACTTCAGGAAGAAATCACCACAGTCTCCAACGTTGCAAAGAAATGCCCTGTATATC
AAATCTTCCAAGATCAGCCGGCTGCCTGCTTACTTGACCATTGAGATGGTTCGATTTTTTATAAGAGAAGGAA
TCTGTGAATGCCAAAGTTCTTAAGGATGTTAAATTTCTCTTATGTTGGATATGTATGAAGTGTGTACACCAGAA
CTTCAAGAGAAAATGGTGTCTTTTCGATCCAAATTCAGGATCTAGAAGATAAAAAAGTGAATCAGCAGCCAAAT
ACAAGTGACAAAAGAGTAGTCCCCAGAAAGAGTAAAGTATGAACCCCTTTCTTTTGCTGATGATATTGGCTCC
AATAATTGTGGATACTATGACTTACAAGCAGTACTAACACACCAGGGAAGGTCTAGTTCTTCAGGTCAATTATGTA
TCATGGGTGAAAAGGAAACAAGATGAATGGATTAAAGTTTGATGATGACAAAGTCAGCATCGTAACACCAGAAGAT
ATCTTACGGCTTTCTGGTGGTGGAGACTGGCATACTGCTTACGTTCTACTCTATGGGCCTCGCAGAGTTGAAATA
ATGGAAGAGGAAAGTGAACAGTAATCTTCATTTTAGTATTTATGCTTAGATGTGAAAATAAATGTTATTTGTTGA
TCATTTCTATAATCCAGAGCTTTAGAGGAAGACACATAGGTGGGTTTATGTTTCACCTCATTGGAACAAAAGAG
GACAGAAGCAGACCACTCTGTGCACCAACCTAAAAAATTACAGAGAAGAGAAAATTATCTTTGGATTGTGCTGCC
CTATATAAAGGTGGCAGAAAGACATTTTTAAAAAGCTTATTATTTCTTGCATTATTTAAAAAGTTCAGAGTTGA
AATGCCTTTCAACCATTTCCTTCTGTGGTCATTTTCTTGCTGCCTTTTTCAACCAAGATTGAGCAGTCAGATGT
TTACTGCACACCTATTACCTATTATTTGCTGTTCTTGATGGTTCAAACCACCATCTGTAGCCACCCATCCTTT
GCCTTATCTAACAAACATTTTTCCAGGAAGGTGGAAGGAAGTGTGCTCTCATTGTGTGACTCAGTGCTGCTG
TCCATCCCATGGAACATGGGCACAATCAAGTATTTGTCCAGCCTATTGCAGGCTTTTCTGACTTTAAAAATAAA
TTGTGATCAATAATAGTACCTTTGATTATACATTTATTATTGTGTCTCTCTCTGATGTACTGTGGATTGTACATT
TAACTTTGGAATGGCTTTGTAATAATCAGTCTTAAGAAAATGTTGACAAGCTCTGGTTGCTTATTTTTAGAAAAT
GAGGACATTTAATAATAATAAAAAAAGGGATTAATAGCTTTTGACCTCAAGTCTTTGTCTTCTGAGTGTGG
AGCTTGGCTGAAGACATGTTAATACTGTACAATTTCTGAAGATGGTTATTAACTGTGCTGTTAAGCATCCAT
TAAAAATATGTTATCTTCTTTGCCTGCC

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FIGURE 5022

GGTATT CAGGAAGGAACACAATGTACCAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTATAC
ATTTTGTGTGCCTTGCTAACAATCACAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTCACA
GGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAGTGACCTGAAAAAATTAGGT
GACCAAACTGGGAAGAAAGCTATCAGCACCAACTCAGAACTCTCCACCTTCAGATCAGACATTCTAGATCTCCGT
CAGCAACTTCGTGAGATTACAGAAAAACCAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGGGAT
GCTCTGGTGGACAGGCAGAGTCAATTGAAAGAACTTTGGAGAATAACTCTTTCCTCATCACCCTGTAAACAAA
ACCCTCCAGGCGTATAATGGCTATGTCACGAATCTGCAGCAAGATACCAGCGTGCTCCAGGGCAATCTGCAGAAC
CAAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAACCTC
ATCAGCAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAAATCTG
CAGCAGGTTTTTCTTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAGTGCAGAGCTTGCAGACGCTGGCT
GCCAACAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATTACAC
GGTCAGATGGAGAACATCACCCTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACACAAA
GATGCAGAGAATAGAACAGCCATCAAGTTCAACCAACTGGAGGAACGCTTCCAGCTCTTTGAGACGGATATTGTG
AACATCATTAGCAATATCAGTTACACAGCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGGACC
ACTTGACAGATAACCCTTACCAAAACACACAGATGATCTGACCTCCTTGAATAATACCCTGGCCAAACATCCGTTTG
GATTCTGTTTTCTCTCAGGATGCAACAAGATTTGATGAGGTCGAGGTTAGACACTGAAGTAGCCAACTTATCAGTG
ATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGTCCA
CCGGGCCCCAGGGGTCCAAGAGGTGACAGAGGATCCAGGGACCCCTGGCCCAACTGGCAACAAGGGACAGAAA
GGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCCAATTGGACCAGCTGGTCCCCCGGA
GAGCGTGGCGGCAAAGGATCTAAAGGCTCCCAGGGCCCCAAAGGCTCCCGTGGTTCCCCTGGGAAGCCCGGCCCT
CAGGGCTCCAGTGGGGACCCAGGCCCCCGGGCCCCACCAGGCAAAGAGGGACTCCCCGGCCCTCAGGGCCCTCCT
GGCTTCCAGGGACTTACGGGCACCGTTGGGGAGCCTGGGGTGCTGGACCTCGGGGACTGCCAGGCTTGCTGGG
GTACCAGGCATGCCAGGCCCCAAGGGCCCCCGGCCCTCCTGGCCCATCAGGAGCGGTGGTGCCTGGGCCTGC
AGAATGAGCAACCCAGCACCGGAGGACAATGGCTGCCCGCCTCACTGGAAGAACTTCACAGACAAATGCTACTA
TTTTTCAGTTGAGAAAGAAATTTTTGAGGATGCAAAGCTTTTCTGTGAAGACAAGTCTTCACATCTGTTTTTCAT
AAACACTAGAGAGGAACAGCAATGGATAAAAAACAGATGGTAGGGAGAGAGAGCCACTGGATCGGCCTCACAGA
CTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGACTACAAAAATTGGAAAGCTGGACAGCC
GGATAACTGGGGTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTTGATTATGCTGGGCAGTGGAAACGATTT
CCAATGTGAAGACGTCAATAACTTCATTTGCGAAAAAGACAGGGAGACAGTACTGTCTATCTGCATTATAACGGAC
TGTGATGGGATCACATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACACTCCTTTCTAATTGCATCACCTTCTC
ATCAGATTGAAAAAAGCACTGAAAACCAATTACTGAAAAAATTGACAGCTAGTGTTTTTACCATCCG
TCATTACCCAAAGACTTGGGAATAAAATGTTCCCCAGGGTGATATGCTGATTTTCATTGTGCACATGGACTGAA
TCACATAGATTCTCCTCCGTGAGTAACCGTCCGATTATACAAATTATGTCTTCCAAAGTATGGAACACTCCAATC
AGAAAAAGGTTATCATTGGTCGTTGAGTTATGGGAAGAAGTAAAGCATATACGTGTAAACAGTGCCATACATTT
CTAAAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGCCAACTATTAGTAATAATATGAAATAT
ACTTAAAGAGCTTTTAAACTTTGTATTTTGTACAAAATATTGTCTTTTACAATTTTTTCTTTTTTTTTTTT
TTGTCATTTTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGTACTAATAAAAACTCCTAGGGTTTCCT
GTCAGATTTAATTCTACCCAGTGGCAAAGAATTTTTTCAATTGTGGCTTTAAAAAATAATTAAATATACATGTA
TATATATAT

[illegible]

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FIGURE 5024

MRSSVSSGGAGRLSMQELRSQDVNKQGLYTPQTKEKPTFGKLSINKPTSERKVSFLGKRTSGHGSRNSQLGIFS
SSEKIKDPRPLNDKAFIQQCIRQLCEFLTENGYAHNVSMKSLQAPSVKDFLKIFTFLYGFLCPSYELPDTKFEEE
VPRIFKDLGYPFALSKSSMYTVGAPHTWPHIVAALVWLIDCIKIHTAMKESSPLFDDGQFPWGEETEDGIMHNKLF
LDYTIKCYESFMSGADSFDEMNAELQSKLKDLFNVDAPFKLESLEAKNRALNEQIARLEQEREKEPNRLES LRKLK
ASLQGDVQKYQAYMSNLESHSAILDQKLNGLNEEIARVELECETIKQENTRLQNIIDNQKYSVADIERINHERNE
LQQTINKLTKDLEAEQQKLWNEELKYARGKEAIETQLAEYHKLARKLKLIPKGAENSKGYDFEIKFNPEAGANCL
VKYRAQVYVPLKELLNETEEEINKALNKKMGLEDTLEQLNAMITESKR SVRTLKEEVQKLDDLYQQKIKEAEED
EKCASELESLEKHKHLLSTVNQGLSEAMNELDAVQREYQLVVQTTTEERRKVGNNLQRLLEMVATHVGSVEKHL
EEQIAKVDREYEECMSEDLSENIKEIRDKYEKKATLIKSSEE

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FIGURE 5025A

GAGAAGAAGTGGCAGGTGATGCTGAAGCGGGGGAGAAGCGGCAGAGCCGGCCACACAGTGCAGGGGATGGAGACA
GGTGCTGGGCTGGTCCTCCTGCAGCATCCTCAGTTGTTGGAGGGCAGTCATCCTCAGGCCGTACCCAGCCAGAGA
AGAAAAAGAACAGTGTGAAGCCACGTGTGATAGCCGTCCAACATCGGCTCTTCCCTCCAATTACATTGTAGTTGA
TTGTAGTCTCAAACCATGAATTATGTGGGACAGCTGGCTGGGCAGGTGATTGTCACTGTGAAGGAACCTACAAG
GGCATTAAACCAGGCCACCCTCTCTGGGTGCATTGATGTCATCGTGGTACAGCAGCAGGATGGCAGCTATCAGTGT
TCACCTTTTTCACGTTTCGGTTTGGAAAGCTGGGAGTCTGAGATCCAAAGAGAAAGTGATTGATATAGAAATCAAC
GGCAGTGCAGTGGATCTTACATGAAGTTGGGTGATAACGGAGAAGCTTTCTTTGTTGAGGAGACTGAAGAAGAA
TATGAAAAGCTTCTGCTTACCTTGCCACCTCACCAATTCTACTGAAGATCAGTTCTTTAAAGATATTGACACC
CCTTTGGTGAAATCGGGTGGAGATGAAAACCATCTCAGAGTTCAGACATCTCACACGCTCTGGAAACAGAGACA
ATTTTTACTCCAAGTTCTGTGAAAAAGAAAAACGAAGGAGAAAGAAATACAAACAGGACAGTAAGAAGGAAGAG
CAGGCCGCATCTGCTGCTGCAGAAGACACATGTGATGTAGGCGTGAGCTCCGATGATGACAAGGGGGCCAGGCA
GCACGAGGATCTTCAAATGCTTCTTGAAGAAGAAGAAATGTAAAGAGCCTTTGCTCTTCCATTCTGGGGATCAT
TACCCCTTATCTGATGGAGATTGGTCCCTTTAGAGACCACCTATCCCCAGACAGCGTGTCTTAAGAGTGATTCA
GAGCTGGAGGTGAAACCTGCGGAGAGCCTGCTCAGATCAGAGTCTCACATGGAGTGGACGTGGGGCGGATTCCCA
GAGTCCACCAAGGTGAGCAAAAGAGAACGATCTGACCATCATCTAGGACAGCTACAATTACACCATCAGAAAAT
ACTCATTTTTCGGGTAATTCCCAGTGAGGACAACCTCATCAGTGAAGTTGAGAAGGATGCTTCCATGGAAGACACT
GTCTGTACCATAGTGAAGCCCAAACCCAGAGCCCTGGGTACACAGATGAGCGACCCAACATCTGTGGCAGAGCTT
CTCGAACCTCCTCTTGAGAGTACTCAGATTTATCTATGTTAGATGCTGACCACCTTCCCAACGCAGCCTTAGCG
GAGGCGCCCTCAGAAATCCAAACCGGCAGCTAAAGTAGACTCGCCGTCAAAGAAGAAAGGTGTTACAAAAGAAGC
CAACACCAGGGACCTGATGATATTTACCTTGATGACTTAAAGGGTCTAGAACCTGAAGTTGCAGCTCTTTATTTT
CCTAAAAGTGAATCGGAGCCCGGTTCCAGGCAGTGGCCCGAGTCTGACACACTCTCTGGCTCCAGTCCCCACAG
TCCGTGGGAAGCGCAGCTGCAGATAGCGGCACCGAGTGCCTCTCAGATTCTGCCATGGACTTGCTTGACGTTACC
CTCTCCCTTTGCGGGGGCTCAGTGAATGGAGAAATTTCAAAGAAAAATTCATGGAGCATATCATTACTTAT
CACGAATTTGCAGAAAACCTGGACTTATAGACAATCCTAACCTTGTAATAAGGATATATAATCGTTACTATAAC
TGGGCTTTGGCAGCTCCCATGATCCTTAGCTTGCAAGTATTCAGAAGAGCTGCCTAAGGCCACAGTTGAGTCC
TGGGTGAAAGACAAGATGCCAAAGAAATCTGGTCTGCTGGTGGTTTTGGCGAAAGAGAGAAAGCATGACCAAACAG
CTGCCAGAATCCAAGGAGGGAATCTGAGGCACCGCCAGCCAGTGACCTGCCATCCAGCTCCAAGGAGCCGGCC
GGTGCCAGGCCGGCCGAGAATGACTCCTCGAGTGACGAGGGATCAGAGGAGCTCGAAGAATCCATCACAGTGGAC
CCCATCCCCACAGAGCCCCTGAGCCACGGCAGCACAACTTCATATAAGAAGTCTCTCCGCCTCTCCTCAGACCAG
ATCGCAAAACTGAAGCTCCACGATGGCCCAAATGATGTTGTGTTTAGTATTACAACCCAGTATCAAGGCACCTGT
CGCTGTGCAGGGACCATTTACCTGTGGAATGGAATGACAAGATCATATTTCTGATATTGATGGGACAATAACC
AAGTCGGATGCTTTGGGACAGATTCTCCACAGCTGGGCAAGACTGGACCCACCAGGGTATAGCAAAGCTCTAC
CATTCCATCAATGAGAAATGGCTACAAGTTCTGTACTGCTCGGCTCGTGCCATCGGCATGGCCGACATGACCCGT
GGCTACCTGCACTGGGTCAATGACAAGGGCACAATCTTGCCCCGGGGCCCCCTGATGCTGTCCCCAGCAGCTTG
TTCTCCGCCTTCCACAGAGAAGTGATAGAAAAGAAACCAGAGAAGTTCAAATTGAGTGTCTAAATGATATCAAG
AATCTGTTTGCCCCGTCTAAGCAGCCCTTCTATGCTGCCTTTGGAAACCGTCCAAATGATGTCTATGCCTACACA
CAAGTTGGAGTTCCAGACTGTAGAATATTACCGTGAACCCCAAGGGTGAATTAATACAAGAAAGAACCAAGGA
AACAAGTCATCGTATCACAGGCTGAGTGAGCTCGTGGAGCATGTGTTCCCCCTTCTCAGTAAGGAGCAGAATTCC
GCTTTTCCCTGCCCCGAGTTCAGCTCCTTCTGCTACTGGCGAGACCCGATCCCTGAAGTGGACCTGGATGACCTG
TCTTGAGGCGGCACCTCAGTGGGTGGGCAGGGCTTGGTCCCCCTCCCCACAGCAAGGGAAGGCAGCTGGCTCTTC
TGCTGACCTCAGATACCAGCCTTCCCCAGCGGGGACGGGTGCTTCTGGAGCTGGTCCCGCCATCTCCTTTGCCT
TCCCAGGCCAGCTGCTCAGGCTCGGCAGGTCTGCAGCTCAGCTCCTGGAAGGAGAAGGGAGGAACGGGCCTGGG
GCTGGAGGCTGGGATCCCTCCTTTGTGGGTGCGACACATGTTTCTGCTGTGAGCTGGGGCCTCCTTCCATTGC
ATCATTTTAAAGGAAGAAAAAGCAGCTAAAAAGAGTGGACCAAAACACTGCACACAGTGAAGTGTTCAGTTT
CCACTGGGCAGTTGAGGTGGCTTCTGTAACCAGGGCTGTCTTCAAGATGTCAGGGTCCCTGAAGTGTGCGGGCCC
AGTCAGTGATGCTGGCTGAAGCTGCCTGTGCACGTTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TCAGCTGCTCAGTGGGCCAAGTTGGGCAGGACCCCCGCCCCCTGCAGGGCCCATGCACCAGAGCCACTGAGCCCA
GTCCCATAAACCTGGCCCTCTTGGGGAAAGATCCCCACAGAGCATCCTCCTCTCATCTGTGACAACTCCACGAG

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FIGURE 5025B

CCCTTAATTTCTTAGTCCTCACCAGAAGAACAGGTCTCACAAGTATATATTTGATGTCTGTAATAAAAGTGGGAA
GGTGGGTCTTAAACAGACCAAACCCGCCCGCCCCCAACACTCTGCTTTTAGGGAGGCCTCCGAAATGCAGA
TAGGCGGTTGAGTGGGGTCTTGGGAAGAGCGCTGAATCCCTCTGCTTGTGCTGCTGGTGTGGGCCTTTGGAAAGCA
TCTTGCCCTTGGGACAGGAATTTCTAAAATTCTGTGATTGAGATTGTGTCAGGGAAGCACAGTGAAGCTTGCTTAAAG
GCACTGGCCAGCAGTGTGTGACTTTGGCTTTTGGGATCACACCTGTAAATCGGGCCCGTGAAGCAGCGTCAAAG
AGGGGTCTTGAGCTCCTATGGAGCAGACTGCCCCCGAGCAGTGTCCCAGCCTAGCCCTGTGAGACCCCATGG
GGACACGGGTGCCATATGTAATTTCACTAAAATATACATGGTAGCTCCATTTACTGATGCGGTTGTAATGAGCTCA
CATCGTGTCTGAAGAGATGGCACCAGGGAAGGTGTGCCATAAGCTGTCCAGAGCTTTTGGTATGCTGAGTGT
GACAGAGCTGCACTCTTAACATCAAGAGAAGTGTGAGGAGCCCAAGAACCCAGGTCTTGGTCTCCATTGGC
GAGAACACAGGACGTGGTGGTTCCTGAGCAGAGAGGGATCTGCAGATACAGGCTTGGCGCTCGGGGTGGTCTCGT
GGCCAACTCTTCATGCCCCCTGCCGTTGTAGTGGAACTCTACATGTTTTAGTTTGTTCACCTAAAATAATGCTG
ATCTAGAGATAGAGAAATAGGGGTGGTTATTTTTCCAGATTGGAGAGTTGAAAGTCCCTGACTGATTTAGCCAT
TTTCTAGTGTCTGTGCGATGCAGAGACAATGTTGAAATCCCTAAACACAGTTCTCAGTGGCAAAACCTAGGAA
GGCTCATGTTCCAGAGAAGGGACCACATGAGCCTTCTCCATGCAAAGCTTCCCCAGCTTAAATAGTTGATAA
GGACTAATTGTTAATGAGTTTATTTATCTACAGTAGGTTAGGGATCCTGGGTTCTGTTTATATGAAGTCTTCC
CAGTTTGTGAATTCTAGTACAGCAGCCATGCAGCCACCTTATTTATAGATGCCATCTGTGTCTCTCTGACTA
CCTTCTATTTAGAGGAAGAATGAGAGCTTTGTGTGTTAACTGAGCTTATAGTAGGACTTCTTTCATATGTATG
GTACTGAAAAATCTTAATATACATCTTAAATCCTTTTAGGTTGTCTTTAAAGAGTTTGTACTAGTTCTTTT
TCTTGACAGCTCTTCTTTTGGACACATGGGCCTTCTAGAGGGTTCAGTCTAGGACCCGGCTCTCCTGGCCCTG
TGTGAGGGTAGCTGGTCCCTCTGTCCCTGTGTCTGTAGCACTAGACTTTGTTGCTGCAGATTGATCCAGTGGG
TACATAGGCTAATTAATGTGAGTCTTTTCTTGTGTTAAAGGAGTCCCTCTTGTGAAAGTAGATGATTACTATT
GCTGTAGTGTAGGAAAGTATTAAGTTGTGCTGAAAATCCATTGCCATTTGGTACAAATGACATTTGTCTTTT
TGTGAAAGAGATGCCCTCGAGTGTGTTGTACACAAACCTTAGGATGGTGAAGTGAAGCATCACCTCGCGCTA
TCTTCAGTGACGGGTGACGGCTCAGGGAGATGGCAGGCAGATTGGGCTCTAAGTCATTATCTCTCAGTTACTCC
ATTGGTGAAATGGCCCTTTCCCTCTTTCAGTTTCTAGTCTAAGTCTCGTATTTGCTTTGCTGTCTGTGTGCTGAAG
CTCGTCCCCTGTGAGTTGTGTCTGCCCCCTTGTGAGGCTGTGAGGTGCTCGTGTAGACCTGGAGCATGCAGGCTG
CCTCCGTTTTTGGGTACTGTGTTGTGTTTGTCTGTCTAAAACATCTGCATAGTTTTCAACTGGAAAAAGAAA
AACTTAAAAATGGGATGTCTTAAATGAAAGCTGCTCAAAGTCACAGAACAAACCGAGGGACAAAGGAGATTGGA
TGACTGGGAAGCGCTGGCCCGAACAGCCCCCTGCAACTGTGGGGCCTGCACACAGCCCTTCCACAGTTGGCACTG
CAGGTGCAGGCCAACCCCTTAAAGAATAAACAAGGAAGTCAGCTCTTCACTTTTTACAAGTTGGCAAAAACAGA
CTTCCGGGGAATTTGATGTTTTCCCGTGTGTAGAGCTTCCAGGGTTTAAATAAACTGGTTAAAAATTGAGTCT
TTCCCTGAAGTAAGTGTCTTTCCAGATGAAAACACTCTTTTGGTTTTGTTTGAAGTAAGAAAGGGAGGGGAA
ACTTTGCTCTTTTAAATAATTATGTTTCCAGCTATGATGAAGTATTTGATTATTAGACAGCAATGTCACTAATAAGT
TTTAAGTTGTCAAAGTTAATTGTAAACATCATCAGTACAGTACTCTTAGTTACAGTAAAGCAATTGTTGCAAGA
TGAATGGCTAATATTTTGGTGCAGTGTGATGTTCAAACAAAATGTTACAACAATAAACGAACATAACAT

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FIGURE 5026

GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTACCATGTTTCTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTTTAGCTAAAATCTTCCAGTTACATTGCTTACTCTCTTTTACTTCTCAGACACTTCCC
CCACCCTCATAGAACCTGTTGCATGCAACTTAGTTTCACAGCTTTGCCTCTTCTTTTGTATGTTTATTCAGA
CCTTTCTGCCACTTAGCACTTGATAATCAGACTGGAAATGGGGATGAGGGTGTAAATTGTATTGAAAAAGATCG
CGAATAAAAATCAACAAATGTGAAAGCCCAGAAAAATATATTTCGTATTTCTGGTTTTGCTGGATTTTACATTTT
TATATAATAAAAATGTTATTTTGAAATAAAGATTATGCTGACTCAAATGCAATGT

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FIGURE 5027

GAATTAAACAACCACCATGTCGAGCAAAAAGGCCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTACCATGTTCTTGACCATGTTTGGTGAGAAGTTAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTGAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTT

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FIGURE 5028

AACCACCACCATGTCGAGCAAAAGAACAAGACCAAGACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTT
TGCTATGTTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAGAGATGGTTT
CATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTTTAGGGAAGAATCCAAGTATGAGTATCTAGATGCCAT
GATGAATGAGGCTCCAGGCCCCATCAATTTACCAIGTTTCCTCACCATGTTTGGTGAGAAGTTAAATGGCACAGA
TCCTGAAGATGTCATCAGAAATGCCTTTGCTTGCTTTGATGAAGAAGCAACTGGCACCATACAGGAAGATTACTT
GAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTAT
TGATAAAAAGGGGAATTTCAATTACATCGAGTTACACGCATCCTGAAACATGGAGCCAAAGACAAAGATGACTG
AAATAACTTCAAATCCAGCCAAACGTTCTTGTTGCCACTTTGGGIATTCTGAGATTTTCTCTTGATGCCCTT
AGCTTTACAGCTTTTGCAATTTCTGTTGTATTTATTCTCAGCCATTTTGGGCATATGTATCTTTATAATCAGACT
GGAAACGGGACTTTCTATTAATATCATTTTCAGAATAAAAAATAGGGTAATTTAACCTACCAGCCCTTCTCCCCC
AATAACTGTGGTCTATACAGAGTCAATATATTTTTTCAGAGAAAGTTATTCGCTCGATTTTTTCTGAATCATAAT
TAACTTTATGATAAAATA

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FIGURE 5029

MSSKRTKTKTKKRPFQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLDAMMNE
APGPINFTMFLTMFGEKLNQIDPEDVIRNAFACFDEEATGTIQEDYLRELLTMGDRFTDEEVDELYREAPIDKK
GNFNYIEFTRILKHGAKDKDD

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FIGURE 5030

ATGCACGCACACACGCATACAGACACCACACAGAGAGAGAGATACAAAAGCAGACCAGAGGCACCTTTTAGA
CTGACACATGAGTGGATTTCGGAGTCTGCAGGTTGCAGCAGAGGAACTGTGAGCTGGAGAGGCAACCTCATTCT
AGCAGCGGCAGAGTTTGGGGCCTCTTTGGAGACAGGGACGTGGGCACAGGGATCTAATGGAGACAGCCCATCAG
CCTGCAGAAGGAACCAGGTCATTGGCCCTGGCAGATCCTTCTGCCCATAGCCTGCTATTGGGTTCTGATAACATC
CAGGACTCAGGACTCAGCTTTGACTTTGCTTTTGGCTGCCCCGTATTAGACATGAACTTGAAAAAGGAGGCAACA
CTTCACGATCGTTTGAGAGAACAACACAGGCAAATTTGGAATCAGACTCTTCACATTCAAAATCAAAAAGCCTC
TGTAAGTTTGAACCTCAATGGAAAACATGAAAAGGTGAACAGTCAGCCCAGGCAAAAGGCAATCATGTTCAAGACC
TTGAGCACCCCTAGACCCTGACTGTGCAAGATTGAAAGGACGACTGCTTCTCCTAAGCCTCAGAGCCTTGCTCTT
TGCATTACAGCAGGATAATGAATCTAGATTTTATTTCTGTTCTTTGCCCAGACTTGTACAGCAGGCAAAGTGTTG
AAAATCAAAGGAAAAGAAGATATTGACTTGGATAATCTCTTCAGAGAGGCCATGGAGGGAAACCAGGAGTGCTC
ACTGAACTTGTGAAGAAGCCACAGCCAAGCCCTGGGGCCAGTCATCCTGCAGCAGTGACCACTCCCCGGCAGGG
AGTGCAGCCAATACAGACAGTGGTGTGGAAATGACTGGCAATGCAGGGGGCAGCACTGAAGACCTCTCCAGCTTG
GACGAGGGACCTTGCAATTGCTGGCACTGGTCTGTCCACTCTTCGCCGCCCTTGAGAACCTCAGGCTGGACCAGCTA
CATCAACTCCGGCCAATAGGGACCCGGGTCTCAAACCTGCCAGCTTGTCCACACCGGTGAGACCTGGGTGTGG
GAGTGCTTGCCAAAGTTGCGGACTGCCAACCACAGCTGGTACTGTCCAGGGCCTGCCCTGAGCACACTGACATCT
GCCCCTGCTGAAGATGCAAAGCCTGTTGCAGCAGGAGCTGCTGGCACCAGCCCTGATCATTCCCTCCTTTTGCAA
TGCCCTCAGCTCTTTTATTTCCATCTGTTGTTCTATGATAGGCTGCTCTCCCCACGTTTCTGATAATTATGGGGTA
AAACCGGGAAGGCTGCAGACATCAGAGGAGAGCTCTATATTCTCCTACTTTAAAATGTTGCCTAAGACAAGCAAC
AAACTCAATGTACTTTGCCCTCTGAGAGAGCTCAGAATCCTTGTCTCAGGAATCATGCGATCAATGCAAAGGAG
CTCGCCATGATCGCCACCGCGGCCTGCTAAGGATTTCCGCCAGAAAGCAGGATCCACTCCGCCCCCAAGCCAG
ATACCCAAGCGCAAGCGGAAAGCCAAGAAGAGGCGCAAGAACGACGTGGTGGTGGTTAATGTGTTGGAGCACTA
AATACGACTTGA

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FIGURE 5031

AGAGCTTCTTTGAAGGGCAGTCTGCACCATGGGACTCGGCTAAGAAAGATGAGAACAGAATGAAGAACAGATACG
GGAATATCATTGCATACGATCATTCCCGAGTGAGGCTGCAGACAATAGAAGGAGACACAACTCAGACTATATCA
ATGGCAATTATATCGATGGTTATCATCGACCCAATCATTACATTGCTACCCAAGGGCCAATGCAGGAAACCATCT
ATGACTTCTGGAGGATGGTGTGGCAGGAAAACACTGCAAGTATCATCATGGTGACCAATCTTGTGGAAGTGGGAA
GGGTCAAATGCTGCAAATACTGGCCAGATGACACAGAGATATATAAAGACATTAAAGTTACCCTAATAGAAACAG
AACTACTGGCAGAATATGTGATAAGAACATTTGCTGTGAAAAGAGAGGTGTGCATGAAATCCGAGAGATCAGAC
AGTTTCACTTCACTGGCTGGCCGGATCATGGGGTCCCTACCATGCCACCGGCCTGCTGGGATTTCGTGCGGCAAG
TCAAGTCCAAGAGCCCGCCAGTGCAGGCCCACTGGTGGTGCAGTGCCTGGTGCAGGAGGACTGGCTGTT
TCATCGTCATTGATATCATGTTGGACATGGCCGAAAGGGAAGGGGTCGTAGACATCTACAACCTGCGTCAGGGAGC
TGCGGTACGGAGGGTGAACATGGTGCAAACAGAGGAGCAGTATGTGTTTATCCACGATGCGATCCTGGAAGCCT
GTCTTTGTGGGGACACCTCTGTGCTTCTCCCAAGTTAGGTCTCTGTATTATGACATGAACAACTGGATCCAC
AGACAACTCAAGCCAGATTAAAGAGGAATTCGGACGCTAAACATGGTGACACCAACGCTGCGAGTAGAGGACT
GCAGCATCGCACTGTTGCCCGGAACCATGAGAAAAACCGGTGCATGGACATCCTGCCCCAGACCGCTGCCTGC
CCTTCTCATCACCATCGATGGGGAGAGCAGCAACTACATCAATGCTGCCCTCATGGACAGCTATAAACAGCCTT
CAGCTTTTATAGTCACCCAGCATCCTTTGCCAAACACAGTGAAAGACTTTTGGAGACTGGTCTGGATTATCACT
GCACATCCGTAGTTATGCTAAATGATGTGGATCCTGCCAGTTGTGTCCACAGTACTGGCCAGAAAACGGAGTAC
ACAGACACGGCCCCATCCAGGTGGAATTTGTCTCTGCTGACCTGGAAGAGGACATCATCAGCAGGATATTCCGCA
TTTACAATGCCGCCAGACCCCAAGATGGATATCGGATGGTGCAGCAATTCAGTTTCTGGGCTGGCCGATGTACA
GGGACACACCAAGTGTCTAAGCGCTCCTTCTTGAAGCTCATTCGCCAGGTGGACAAGTGGCAAGAGGAGTACAATG
GCGGGGAAGGCCGACGTTGTGCACCTGCTTGAACGGGGGAGGCCGAGTGGGACGTTCTGCGCCATCAGCATCG
TATGTGAGATGCTCCGGCACCAGAGAACCGTGGATGTCTTTCACGCTGTGAAGACACTGAGGAACAACAAGCCCA
ACATGGTTCGACCTCCTGGATCAGTACAAGTTCTGCTACGAGGTGGCCCTGGAATACTTGAATTCTGGCTGATGGT
GTAAACAGCTCTGCAAACAATCCCTTTTCATACCACAAAGCCAAGACGTTCCATGGTATTTGTGCAAAAGAGATGA
AGACTTCTCAATATGCTTATTTTGTCTTTGCATAATTGGCTCTTTTTAAGAGCCCAAGAAAGTGTCTTAAAATTG
CTTGCACTGCCCAATCCAGTAATGCTGCTGCCTGACAGAAACACACACAGCCACAGTTGCCAAATCCCGTAC
TCCTTGCCACCGGCTTCCCTAGAGCAGCGTAGACAGCTGGTAACTGAAGAGCACAACTATATTCTTATGAAGGAA
TTTGTACCTTTGGGGTATTATTTTGTGGCCCGTGACCTCGTTATTGTTACAGCTGAGTGTATGTTTTTGTCTG
TGGAGAATGCTATCTGGCATTATGGTAATATATTATTTAGGTAATATTTGTACTTTAACATGTTGCATAATATA
TGCTTATGTAGCTTTCCAGGACTAACAGATAAATGTGTAATGAACAAAGATATGTTGTATGAGTCGTCGTTTCTG
TCAGATTTGTATTGTTTCCAAGGGAAAAGCTTGGGGGAGGACTCAGTTCACAAAATGCAAACTCAACGATCAGA
TTCACGGACCCAGAGCTTTTCCATGTGTTTATATTGTAAATATTTTGATTTCATCAAATTATTTATTCATTA
AGAAATTTTTGTG

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FIGURE 5032

CGGAGGGTGGGGAGCGGAAAGCAGGACGCACGGCTCCCGCGGCCCGCTGGCTGCCCTTCCCGCCAGCGCAGGTGT
GGGACGGGCGGCGGACTAGGCACAGAGCTGCGGGAGCAGGCACAGGGAGTGTGGAGCCTGGCGGCGGGACGGCGG
GATCCGGTGGGAGCCGGAGTCCCGCCGAGGGGGGCTGGAGGTGGAGGGGCCCGGCGAGGCCGCGATGAAGCCGAG
CGGCGAGGACCAGGCGGCGCTGGCGGCGGCCCTGGGAGGAGTGTCTCCAGGCGGCCGTGCAGCTGGCGCTGCG
GGCAGGACAGATCATCAGAAAAGCCCTTACTGAGGAAAAACGTGTCTCAACAAAACATCAGCTGCAGATCTTGT
GACAGAAACAGATCACCTTGTGGAAGATTAAATTATTTCTGAGTTGCGAGAGAGGTTTCCTTCACACAGGTTTAT
TGCAGAAGAGGCCGCGGCTTCTGGGGCCAAGTGTGTGCTCACCCACAGCCGACGTGGATCATCGACCCCATCGA
CGGCACCTGCAATTTTGTGCACAGATTCCCGACTGTGGCGGTTAGCATTGGATTGTGCTGTTGACAAGAGCTTGA
ATTCCGAGTGATTTACCACTGCACAGAGGAGCGGTGTACACGGGCCGCGGGGTGCGGGCGCCTTCTGCAATGG
CCAGCGGCTCCGGGTCTCCGGGAGACAGATCTCTCAAAGGCCTTGTTCTGACAGAAATTGGCCCCAAACGTGA
CCCTGCGACCCCTGAAGCTGTTCTGAGTAACATGGAGCGGCTGCTGCATGCCAAGGCGCATGGGGTCCGAGTGAT
TGGAAGCTCCACATTGGCACTCTGCCACCTGGCCTCAGGGGCCGCGGATGCCTATTACCAAGTTTGGCCTGCACTG
CTGGGATCTGGCGGCTGCCACAGTCAATCATCAGAGAAGCAGGCGGCATCGTGATAGACACTTCGGGTGGACCCCT
CGACCTCATGGCTTGACAGAGTGGTTGCGGCCAGCACCCGGGAGATGGCGATGCTCATAGCTCAGGCCTTACAGAC
GATTAACTATGGGCGGGATGATGAGAAGTGAAGTGCAGGCTGAGGCAAAGCTGCTCCCAAGGCCTCCCTGGGCTGCT
GTGGGCTCCTGGGAGGTGGCCCTCGTGGCCCACGCTCCATGCCAGTGGCTCACGCTCTGCTCCTGGCTACCCCA
GAGGGAGTTGTACGCTACAGTGAGTGGCTGGCCTTTTAAATCGACGTCTCTCTACCAGGATTTGGTGTTTAGC
TGTTTCTCTCTTTAATCTCACGTAGCCTTTTTTCAAGTTAGTACGTGTTCTTCTGTGAGGGCCAAAACCAAATCT
CCTGTGAAATACGTATTGATAATCCAATCTTGATTTTCCCCCAGAATATAAATCTCAGGTAATAAGGCTTTAG
AACTGCTGATAAAGCGGATCGTTCTCAGGCCCTCCCCCGGAGTACTTCAGAATGCAATAAATCAAATAATGGC

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FIGURE 5033

MKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAADLVTETDHLVEDLIISELRERFPS
HRFIAEAAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVVIYHCTEERLYTGRRGRGA
FCNGQRLRVSGETDLSKALVLTEIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLALCHLASGAADAYYQF
GLHCWDLAAATVIREAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQTINYGRDDEK

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FIGURE 5034A

GGCACGATTCTGGGTACAGGTGATGAGGGATTTGAGGAATGGGGTAAAACTTAAGAAGGTCCAAGAGCGGCAGTA
CAACCCCTTTGCCCATTTGAATATCAGCTCACCCTTATGAGATGTTAATGGATGACATTTCGCTGCAAAAGATACAC
CTTGCGAAAAGTGATGGTGAATGGTGATATTCCCCCTCGGTTAAAAAAGAGTGCTCATGAAATCATCTCGACTT
CATCAGATCCAGACCTCCTTTAAATCCAGTCTCAGCCAGAAAACCTGAAACCAACTCCACCACGGCCACGGAGCCT
CCATGAAAGAAATATTAGAAGAAATTAAGCAGAAAGAAAGCTGCGGCCTGTATCACCAGAGGAGATTAGACGTAG
CAGATTAGATGTGACTACCCCTGAATCTACAAAGAACTTTGTGGAGTCATCTATGGTGAATGGAGGTTTGACATC
ACAAACAAAAGAAAACGGGTTAAGTACCTCAGCAGAGGTGCCTGCACAGCGGAAGAAGCTCCTCAGAGCCCCAAC
TCTGGCCGAAGTGGACAGCTCTGAGTCTGAGGAAGAAACGCTGCACAAGTCGACCAGCAGCAGCAGCGTGTCTCC
CTCTTTCCCTGAAGAGCCAGTCTGAGGGCCGTGTCCACAAGGAAGAAGCCTCCAAAATTCCTGCCCATATCATC
AACACCCCAAGCAGAGAGAGAGCCACCCAGAGCAGACATTCCATTGAAAAGGAAACGCCTACTAACGTGAG
GCAGTTCTTGCCGCTTCCAGGCAGAGTTCCCGCTCTCTTGAGGAATTCTGCTACCCAGTGAATGCCTCGCTCT
TACTGTGGAAGAAGTGATGCATATTCGCCAGGTCTGGTGAAGGCAGAGCTGGAATAACCAACAGTATAAAGA
CATCTACACCCGCTTGAAAAAAGGAAAGCTCTGCTTTTGTGGCCGAACCAGGAGGTTTTCTTCTTCACTTGGTC
TTATACCTGTCTGTTCTGTAAGAGGCCGGTGTGCTCAGAGTGTGCAAAAAGATGCGGCTGCCCTCAAACCATA
CTCCACTCTTCTATCTTTTTCATTGGGACCTTCTGCTCTGCAAGAGGGGAAAGTAGTATGAGGTGAGAAAAACC
CTCCACTGCCCATCATCGGCCACTTCGGAGCATTGCCAGGTTCTCTCAAATCTAAGTCTATGGACAAATCAGA
TGAAGAAGTCCAGTTTCCCAAAGAGTTGATGGAGGACTGGAGCACCATGGAGGTGTGTGGACTGCAAGAAGTT
CAATTCGGAATCATCAGTTCAAGCCGGCGCAGTCTGGTGTGGCCACAAAAGGGCCCGATTGAAAAGGAAAC
GCAGTCTTTTCTACATGTCCTCGCCAGGCCCTCGGAGTACTGCCCTTCAGAGAGGACGATCAGTGAGATCTGAGC
CTCGTGCCCTTTCAGCTGCTTTTGTGCTACGAGTCAGCGTCCGTGCGCAGGACACTGAGCCGGGCTGGCTCTCT
TTCTGTGGTTTTATTTAATGGGCTTGAATTTGCATTAGATCAGATTTTGGCGCATCATTGTTCCACAGACTG
AATGCTGTGTTTCTGATCGATTGATGAAACGTGACAGGTCCGCCAATTGCTCGTTGCACTGAGAGAGGACAACAG
TTTGAAACTTACTTTTGTGTGTGTGGCTTTGGAAGCCAGTAGCTACTTCTTAGTTAGTTCTTTACTGTTC
TCGAATAATCTCCTGACTAAGGCAAAAAAAGCTTCTCTACGAGAAATCAGTCTAACAGAGATGCCGATGTC
AGCAGAGCCCTAAGCAGTAAGTCATATTGGCATTTCACGTGACTGTGTTTCTATCCCGTGTACAGAGAGATCCA
GAGCCCTACACTCCACGACCTGGGGGCTCAGAGCACAGAACCTAGAAGCACCTGCTGACACTCTTCAACTGATT
TTAAATGTTGTTGCTTGGAGATAAAAAATTACATAAGGGACTTTTGCCTGCATTCTAGTGCAAAACATCTGAAGA
GCTGTACACCCACAAGGGTGACTATTCCCTGAGTGGCGGTGTTGTCCAGTGCCCTGGTTCAGTGTCTCCTGA
GTGGATGACAGGTCTTCACTCTATCTTGAATGTATTATGGTTACTAATAGTTTTATAATGGAGGTCTAAGAAT
TAAAGTTGTGTGGGAGTTTCAGGACAAAGGAAGGCTAAAGTTGTCAAGACGTTGAGCGTATTTGGTTACCTA
TGAGAAGGGTTGTGACAGTGTACAGTGGCAGCTGTTGGCCAGCTGCAGAAATGAGCTGGAGCTCATGGGTTTT
AGCTACATTTTTTATACTTTGTAGTACATCCATCTTGAGTAAATTAAGCCACAATTTGGTACCTAGGGTCTCAA
ACTAAAATTTATTTTTATAAATGAATTTTAAAGAAAAAATATCTACTTCTTTAAAGTTAGAAGAAAAATTAACC
TGCTGACAGGCAACATTTTGGGGTGCTTTCTGCACTAGTTTCTTGTAAATGATTTGAGTGAGTAGGTTTGGT
TTCTGACGAAAGTAGACTGGAGGGTAGCATTGTATGCCTCAAATGTCTCAGTGTGTTTGGCTCATACGTGGGCTA
TACTGTATTATTTTGGTATGCTTACAAATGACTAACCAATCAAATTGTCATTAATGTTTGGAAAACTGTAAATG
CACATGCACAATAATTTCTGAAAGCCATAGGACATGTCTGTAGTCAGCACCACGATAGCACCCTTCATGAAAG
GCATGGCGGCTGCATTTACATACCATCAAATACAGTAACATTTCTATACTAAATTAACAGTAATACCTCAAAA
CTGCTCCGGTAGTAGTTTTTAATGGATTGAAATTTACAGTTTAGTAAAAGGCTTAAATTACTTATACTTATGAA
ATAAATTTACCAGTTGACTAAAATAATGCATGTTAACAGTTGGTCTGTATTGTCATGTAAGAAGTGGGCCACCAG
AGAACCCTTATTGATTACTTAAGTGTTTACATTATTTTAAAGACTCCTGTTTAAAGCTTTTCAAGATTTGACTGG
GTGAATCTCATTATAAACTTCCTAAGAGACTATCTGAACCTATACTCCAGACAGTTAGGTGGGAGTATAAAT
CTACCCCTTTTGATGACCCCGAGGCTTGAGTTTTTAAATGACTACCCAGAAGGGCACAAGGGGGAAGGAAATGGT
ATTTGTATATGTATATAAATATGCACCTAGGAGAATGTGCTTTTTTAAATAATGACTACTGTTTTTATTAACA
TAAGAACTACACCCCAAAATAAGACTTTTCACTACATTACAAAGCAAACATCTAGTACATGTCTTCACTTC
ACTTTATGATAGTGTATTGGATGATTTGGGCATTACGATCACCTCTTACCACAGCACAGAACATACATTCTTCAA
CAGCATTAAACGGAGTTTGCCAAGTGCATTAAAGAGGTACGTTGAGGGTACGTTTATGAAACATCTGCAGAA
AGTGGGGTAAGAAAGGGCACATGGCACAGTTAAAGTTGTAGAAATCAAATTACTATCATTTTTTGTGCCAAAA

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FIGURE 5034B

AAAGTCTTACATTTAACCCCCCTTCTACCACCCCCCTCCACACTTCACGTCAGCTACATAGTTTCCACAGGGTA
ATTCAC TAAGAGCTTGTGGAGCTTGGTTTTAAATCCTTAGCCTGGTCTGACTTTAGGCATAGCTTCCAGTTCTT
CCTTCCGTGTCCTGGTTTCTTGTTTCAGTTTTACTTCTAATCCAACAACAAAAGAAATGTCTGGCTGGTCTCAGCT
AGAGTCTGATGTGTCTTAGAGCATGTGTGCGTATCTGAACCATCATCCCTGCTCTCATCTCAGCTCCCTCCAGGC
CTGAGCACCGGTTCCTTTTGTCCCATACGTCATGAAGTCACACTATTGGGAAACCTGTGCTTCCCTCTCCATGGC
TTAACTCCCCTGTCAGTGTCTGGAGTGTATAAGAATGCTTGTAATACTGTAATATATTTATTAATATTTGAAAGGC
ATTCATT CAGTGGACAGTGGGAATTA ACTCTCCCAAGGCAAGTGAAAATGAATGATTGACGTACGTTGATTTAAC
AATCTTACTAGATTTTAATTCTTAAGGATTTCAAATGAAACCAGAAGGTGGTTATGTAAGAGGCTTAAAATGATC
TTATGTTTAAAGAGATTCTGTTATTAGCACCATGAACTCGTACTATGAAATTTTAAAGCCTTTTATTTTCTAAC
TATATTACTGTAGGACTGGATATTAGGTGTCATATAGGAAACACAAAAGTTTATTGCTGTTTGCTAAAGCAAAAT
AGCAGAAAATTTTGTATATGCAAACTGTTGAAGGACCATAGAGAAATGTGTACTACTGACGGGGCTTTTACTAG
GCTTCCTGCGTGTGTAAAAGTCGAGGTATTGCTGGCATT CAGGGTGACATGATGGTACTAAATGTTTTCCATTAA
AGTCTTCTATTTTAAAATTTAGAGAAAAATAAAATGGCTTTCATCAG

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FIGURE 5035

MRDLRNGVKLKKVQERQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKVMVNGDIPPRLKKSAAHEIILDFIRSRPPL
NPVSARKLKPTPPRPRSLHERILEEIKAEKRLRPVSPEEIRRSRLAMRPLSMSYSFDLSDVTTPESTKNLVESM
VNGGLTSQTKENGLSTSQQVPAQRKKLLRAPTLAELDSSESEEEETLHKSTSSSSVSPSFPEEPVLEAVSTRKKPP
KFLPISSTPQPERRQPPQRRHSIEKETPTNVRQFLPPSRQSSRSLEEFQCPVECLALTVEEVMHIRQVLVKAEL
KYQQYKDIYTALKKGKLCFCCRTRRFSTFTWSYTCQFCKRPVCSQCCKKMRLPSKPYSTLPIFSLGPSALQGES
SMRSEKPSTAHHRPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISRRSLVLANKR
ARLKRKTQSFYMSSPGPSEYCPSERTISEI

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FIGURE 5036

TTCTTTCTTGCCGTGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCACCAGACTTTCTGTAAGA
AGTGTGGCAAGCACCAACCCACAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTATGCCCAGGGAAAGT
GGCGTTATAACAGGAAGCAGAGTGGCTATGGTGGGCAGACTAAGCCGATTTTCCAGAAAAAGGCTAAAACTACAA
AGAATACTGTGCTAAGGCTTGAGTGCGTTGAGCCCACTGCAGATCCAAGAGAATGCTGGCTATTAAAAAGATGCA
AGCATTTTGAAGTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCCGTTCTAAGTGTATCTTTTATTATGA
AGACAATAAAA

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FIGURE 5037

GGCAGGAGGCAGACCATGAGGTTTAACTGAGTGAACACCGCTGTTCCGGGGCTCTGCCTCTCGCTGAACGCTCCT
GCTGGGCTGGGGCCTCCCGAGTAGCTGGAAGTACAGATAATCACAGCTGGCTTATCAATATTGCTGTTTGATGCG
ATCCTGACCAGTGCAACCACGGGATGCCTCCTGCTCGGTGCGCTTGGAGAGGCCCTGCTGGTTTTCTCAGAGCGG
AAGAGCTCCTGAACAAGACGGTCAAGAGAAAGACTCACAGGCTGCTGCGGGAGAACAGCTTGTACACCTGTGTAC
GAGCCCCTGGTCTCATAGCTCCCTGTTGGATGTGTCAGAAAGAGGAATGCAAGGACAGTGAGGCCAGGTGGGCAG
TGCCATCACCCCTACCCCAAGTGAATGTGGTGGTGGCTGATGAGGCCGAGGCCCTGGTGCTTCAAGGAGCACCCCTT
TCTGGGGGTCTGCAGGTCACTGCAGAGGAGCGGTCTGTTACATCTTCCCATTGGAGAACCTCTCTCAACCGTGC
TGAGCTGGTTCTGCAGAAACAGGAAGTACAGGATTTTCATGGGCTGGCTCTGCTCGCCTCGACTGAGCTTCACAC
CTCTGGATGCCACATGCTCTCTCCCAAACACTGCTTTCAGTGCAAGGTAGTGGGCCTAAGGGGTTTTGGTTGTCT
TTTTTTTTTTTCATTTTTAAAAATTTTAAATTTTTATTATTATTTTTTAGAGACAAGGCCTCGCTCTATCGC
CTAGGCTGAAGCACAGTGGTGCATCACAGCTCGCTGCAGCCTTGACCTCCTAGGATCAAGCCATCCTCCTGCCT
CAGCATCCACAGTAGCTGATGTGCACCACCAGACCCGTCTCATTTTTTCTATTTTTATTATTTTAGAGATGGGGA
TCTCACTGTGTGGCCAGGCTGGTCTCAAACCTCTGGGCTCAAGCAATCCTCCCACCTTGGCCTCAAAGTATTGA
GATTACAGGCATGAGCCACTGCACCCGGCCTTTCTCATTTTTTAAATTTGACAGACGTAACAGTGCGCATT
TATCAGCACAACACAATGCTTTGGGAATGGTTAAATCTAGCTCACAATGCATTACCTCACACGGTTGTCAATT
TTGTGGTGAGGCTTGGTTGTATGTTTTGTTTCATTTCATGTTTTTACATCCTTGGAGTCTCCTCTGGGTCCGTCT
TTCTTTGCTGTATGCTGGCTTGCTTAAGGCCACCGCCACCTGCGTACGAGCATTTTAACTCTAGAGTGAGTG
ACAGCCTTTTTATGGTTGGTGTACTATTTATTTCTGCCTCTAAACTTCTCGTGGTCTTATAAACTTGTCAAG
ATGTGTGTTGCGTTGAATTCGTCATGTCCTTTTTTGGCCACCCTCAGGTTAAGCTGGTACTAACTTATCCCCAG
AGGAAAACAGGTTTATGAGCACTGACAGATGTCTTCCCTGGGCAAAAAAAAAAAAAAAAAATAGTATATGTATACAC
ACACACATACACATTTATATTTATATTTCTTAAAGCTTTAATCCCTTTCATTCCCTGATATCTCAGAGATTCA
AATCATTGAACACTGAAGTATATTTTTCAGGCCAGATGAAAAATTGTATTTAAACCTTATCCTGGTCAGGCACA
GTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGAAGTAAGCAGATCACCTGAGGTGGGAGTTCAAGACA
AACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAACTACAAAAAATTAGCCTGATGTGGTGTGTGTGCT
GTAGTCCCAGCTACTTAGGAGGCTGAGGTAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTGTCAGTGAGCCAAA
ATTACGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACAGTCTCAAAAACAACAACAACAACAAAAACCTAT
TCCTTGCTTTGTAGGAGTCAAAATAAATGAACCTCTTTTTTCTTTTTTTTATTATTATATCTTAAAGTCTGGGG
TACACGTGCAGAATGTGCAGGTTTGTACATAGGTATGCACGTGCCATGGTGGTTTGTGTCACCCATCAACCTGT
CACCTACATTAGGTATTTCCCTAATGTTATCCCTCCCTAGCCCTCCATCCCTGACAGGCCCTGGTGTGTGAT
GTTCCCTCCCTATGTCCATGTGTTCTCATGTCTCAAAATAAATGAATTTACACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 5038

MPPARCAWRGLAGFLRAEELLNKTVKRKTHRLRENSLYTCVRAPGLIAPCWMQKEECKDSEARWAVPSPSPK

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FIGURE 5039

GAATTCCCCCCCCCCCCCAGTGCTCCGCGCGCTCTTGACGTCCGGAGCCCCCTGGAGTAGGCGCTTCCGGCCATT
CATACTGCAGTCGGTCAGTGTTTCGGTTGAAGGATTCTGTGTGCTGTCCGACCCAGAGGGTGACGGCGCCGCTAGG
ATGAAGCTCGTGAGATTTTTGATGAAATTGAGTCATGAAACTGTAACCATTGAATTGAAGAACGGAACACAGGTC
CATGGAACAATCACAGGTGTGGATGTCAGCATGAATACACATCTTAAAGCTGTGAAAATGACCCTGAAGAACAGA
GAACCTGTACAGCTGGAAACGCTGAGTATTCGAGGAAATAACATTTCGGTATTTTATTCTACCAGACAGTTTACCT
CTGGATACACTACTTGTGGATGTTGAACCTAAGGTGAAATCTAAGAAAAGGGAAGCTGTTGCAGGAAGAGGCAGA
GGAAGAGGAAGAGGAAGAGGACGTGGCCGTGGCAGAGGAAGAGGGGGTCTAGGCGATAATGTCTCTCAAGATTT
CAAAGTCATATGAGATTTGGGATATTTTTGTACAGGTTGTGTTTGTATGTCAGTTTTTAATAAACATAAATG
TGGGACAGAGCTGTCTATTTAGTATATCAAAGTTTTAGTAGTTTCTCCACATTCACGAAATTACCACAGTGAGA
GCTAAGCATTTCTACTGGGCAGTTTTCATTTTAGTTGATCAGGTTTTAAGTTTTTGAATAAAATTTTTCTTTTT
CTTTTTATGATGAATAAGGTTAAATAAAAAGCCTTAGACAAATTAAATTTGGCAGAGTTTAATTGAGCAAAGGAC
AATTCACAAATCAGGTAGCCCCCTGAACCATAATAGGCTCAGAGGCTTCAGCCCAGCTGCATAGTTGAAGATTTAT
GGACAGAAGGAAAGTGATGTATGGAATGGAAGTGAGATACAGCAACAGCCGGATTAGTTACAGTTCAGCGTTT
GCCTTATTTGAATATGGTTTGAACAGTTCGCTGTCTTTGGTTGGCTGAAACTTAGTGATTGCCACAAGAGTAGGG
TACCGTCTGTTTACACGTCCAGTTAGGCTACAGTTCTATGTACTGAGAAACCTTTAAGCTGAACTGAGATATGT
AAAGAGACTTTAGGCTAAACTTAACAATATATATAGGAATATATCCCTTCTACTTCACATGCACTGAATATGCAT
TTTATTGCTTTACTCTTCATTCTGTGGCACCTACCCACAGGGGAAGTAAGAAGTTTGTTTTGGTATTTCCGAAAC
TAAAGTCCTTATGGGATGGGGTCTAGAATTGATTCTCCTTTCCCTGAGTTTTACTCCACGGAGTCTTAGGTACCTG
GTAAAAAGTTGTCTTCTAAATTAAGGGTCATTGCTTTGTTGTCTAGCTGCTAATGTCTTACTTTTGTCTTTTG
CTTTTTAATCAGTTCTTAATAGGATATAGTTTTATGTTTTCCAAGTTATAACTTGGAGTTAATGGTCACTAGATT
ATCAGTTATGAGCAGTGTTAAATCTCCTATTAATGTGTAATGTACCTGTCAGTGCCTCCTTTATTAAGGGGTTT
TTTGAGAATAAAAGAGAAAAGACCTACTTTATTTGACAGCAAAAAAAAAAAGGAATTC

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FIGURE 5040A

ATGGGATGGCTGTGGATCTTTGGGGCAGCCCTGGGGCAGTGTCTGGGCTACAGTTCACAGCAGCAAAGGGTGCCA
TTTCTTCAGCCTCCCGGTCAAAGTCAACTGCAAGCGAGTTATGTGGAGTTTAGACCCAGCCAGGGTTGTAGCCCT
GGATACTATCGGGATCATAAAGGCTTGATACCGGACGGTGTGTTCCCTGCAATTGCAACGGACATTCAAATCAA
TGCCAGGATGGCTCAGGCATATGTGTTAACTGTCAGCACAACACCGCGGGAGAGCACTGTGAACGCTGCCAGGAG
GGCTACTATGGCAACGCCGTCCACGGATCCTGCAGGGCCTGCCCATGTCTCACACTAACAGCTTTGCCACTGGC
TGTGTGGTGAATGGGGGAGACGTGCGGTGCTCCTGCAAAGCTGGGTACACAGGAACACAGTGTGAAAGGTGTGCA
CCGGGATATTTCCGGGAATCCCCAGAAATTCGGAGGTAGCTGCCAACCATGCAGTTGTAACAGCAATGGCCAGCTG
GGCAGCTGTATCCCTGACTGGAGACTGCATAAACCAAGAACCCAAAGATAGCAGCCCTGCAGAAGAATGTGAT
GATTGCGACAGCTGTGTGATGACCCTCCTGAACGACCTGGCCACCATGGGCGAGCAGCTCCGCTGGTCAAGTCT
CAGTGTGAGGGCCTGAGTGCCAGCGCAGGGCTTCTGGAGCAGATGAGGCACATGGAGACCCAGGCCAAGGACCTG
AGGAATCAGTTGCTCAACTACCGTTCTGCCATTTCAAATCATGGATCAAAAAATAGAAGGCCCTGGAAAGAGAACTG
ACTGATTTGAATCAAGAATTTGAGACTTTGCAAGAAAAGGCTCAAGTAAATTCAGAAAAGCACAAACATTAAAC
AACAATGTTAATCGGGCAACACAAAGCGCAAAAGAACTGGATGTGAAGATTAAAAATGTCATCCGGAATGTGCAC
ATTCTTTTAAAGCAGATCTCTGGGACAGATGGAGAGGGAAACAACGTGCCCTTCAGGTGACTTTCCAGAGAGTGG
GCTGAAGCCCAGCGCATGATGAGGGAACTCGGAACAGGAACCTTTGGAAAGCACCTCAGAGAAGCAGAAGCTGAT
AAAAGGGAGTCGCAGCTCTTGCTGAACCGGATAAGGACCTGGCAGAAAACCCACCAGGGGGAGAACAATGGGCTT
GCTAACAGTATCCGGGATTCTTTAAATGAATACGAAGCCAACTCAGTGACCTTCGTGCTCGGCTGCAGGAGGCA
GCTGCCAAGCCAAGCAGGCAAAATGGCTTGAACCAAGAAAACGAGAGAGCTTTGGGAGCCATTAGAGACAAGTG
AAAGAAATAAATTCCTGCAGAGTGATTTACCAAGTATCTAACCACTGCAGACTCATCTTTGTGCAAACCAAC
ATTGCGCTGCAGCTGATGGAGAAAAGCCAGAAGGAATATGAAAAATTAGCTGCCAGTTTAAATGAAGCAAGACAA
GAACTAAGTGACAAAGTAAGAGAACTTTCCAGATCTGCTGGCAAAACATCCCTTGTGGAGGAGGCAGAAAAGCAC
GCGCGGTCCTTACAAGAGCTGGCAAAGCAGCTGGAAGAGATCAAGAGAAACGCCAGCGGGGATGAGCTGGTGGCG
TGTGCTGTGGATGCCGCCACCGCCTACGAGAACATCCTCAATGCCATCAAAGCGGCCGAGGACGCAGCCAACAGG
GCTGCCAGTGCATCTGAATCTGCCCTCCAGACAGTGATAAAGGAAGATCTGCCAAGAAAAGCTAAAACCTGAGT
TCCAACAGTGATAAACTGTTAAATGAAGCCAAGATGACACAAAAGAAGCTAAAGCAAGAAGTCAGTCCAGCTCTC
AACAACCTACAGCAAACCCCTGAATATTGTGACAGTTCAGAAAGAAGTGATAGACACCAATCTCACAACCTCTCCGA
GATGGTCTTCATGGGATACAGAGAGGTGATATTGATGCTATGATCAGTAGTGCAAAGAGCATGGTCAGAAAGGCC
AACGACATCACAGATGAGGTTCTGGATGGGCTCAACCCCATCCAGACAGATGTGGAAGAATTAGGACACCTAT
GGGAGGACACAGAACGAAGACTTCAAAAAGGCTCTGACTGATGCAGATAACTCGGTGAATAAGTTAACCAACAAA
CTACCTGATCTTTGGCGCAAGATTGAAAGTATCAACCAACAGCTGTTGCCCTTGGGAAACATCTCTGACAACATG
GACAGAATACGAGAACTAATTCAGCAGGCCAGAGATGCTGCCAGTAAGGTTGCTGTCCCCATGAGGTTCAATGGT
AAATCTGGAGTCGAAGTCCGACTGCCAAATGACCTGGAAGATTGAAAGGATATACATCTCTGTCTTGTCTC
CAAAGGCCCAACTCAAGAGAAAATGGGGGTACTGAGAATATGTTTGTGATGTACCTTGGAAATAAAGATGCCTCC
CGGGACTACATCGGCATGGCAGTTGTGGATGGCCAGCTCACCTGTGTCTACAACCTGGGGGACCGTGAGGCTGAA
CTCCAAGTGACCAGATCTTGACCAAGAGTGAGACTAAGGAGGCAGTTATGGATCGGGTGAAATTCAGAGAATT
TATCAGTTTGCAAGGCTTAATTACACCAAAGGAGCCACATCCAGTAAACCAGAAACACCCGGAGTCTATGACATG
GATGGTAGAAATAGCAATACACTCCTTAATTTGGATCCTGAAAATGTTGTATTTTATGTTGGAGGTTACCCACCT
GATTTTAACTTCCAGTCGACTAAGTTTCCCTCCATACAAAGGTTGTATTGAATTAGATGACCTCAATGAAAAT
GTTCTGAGCTTGTAACATTTCAAAAAACATTCAATCTCAACACAAGTGAAGTGGAGCCTTGTAGAAGGAGGAAG
GAAGAGTCAGACAAAATTTTGAAGGTACGGGCTATGCTCGAGTTCCAACCTCAACCACATGCTCCCATCCCA
ACCTTTGGACAGACAATTAGACCACCGTGGATAGAGGCTTGTGTTCTTTGCAGAAAACGGGGATCGCTTCATA
TCTCTAAATATAGAAGATGGCAAGCTCATGGTGAGATACAACTGAATTCAGAGCTACCAAAAGAGAGAGGAGTT
GGAGACGCCATAAACAACGGCAGAGACCATTGATTGATCAAAATTTGAAAACCTCCAAAAGCGTATGTGGATA
AATGTGGACGTTCAAAACACTATAATTGATGGTGAAGTATTTGATTTAGACATATTATCTGGGAGGAATTCCA
ATTGCAATCAGGGAAGATTTAACATTTCTACGCCTGCTTTCCGAGGCTGCATGAAAAATTTGAAGAAAACAGT
GGTGTCTGATTGATGAATGATCTGTGGGAGTAACCAAAAAGTCTCGGAAGACTGGAAGCTTGTGCGATCTGCC
TCATTCTCAGAGGAGGACAATTGAGTTTCACTGATTTGGGCTTACCACCTACTGACCACCTCCAGGCCCTATTT
GGATTTAGACCTTTCAACCCAGTGGCATATTATTAGATCATCAGACATGGACAAGGAACCTGCAGGTCACTCTG

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FIGURE 5040B

GAAGATGGTTACATTGAATTGAGCACCAGCGATAGCGGCGGCCCAATTTTAAATCTCCACAGACGTATATGGAT
GGTTTACTGCATTATGTATCTGTAAATAAGCGACAACCTCTGGACTACGGCTTCTCATCGATGACCAGCTTCTGAGA
AATAGCAAAAGGCTAAACACATTTCAAGTTCCCGGCAGTCTCTGCGTCTGGGCGGGAGCAATTTTGAGGGTTGT
ATTAGCAATGTTTTTGTCCAGAGGTTATCACTGAGTCCTGAAGTCCTAGATTGACCAGTAACTCTCTCAAGAGA
GATGTGTCCCTGGGAGGCTGCAGTTTAAACAAACCACCTTTCTAATGTTGCTTAAAGGTTCTACCAGGTTTAAAC
AAGACCAAGACTTTTTCGTATCAACCAGCTGTTGCAGGACACACCAGTGGCCTCCCCAAGGAGCGTGAAGGTGTGG
CAAGATGCTTGCTCACCCTTCCCAAGACCCAGGCCAATCATGGAGCCCTCCAGTTTGGGGACATTCCCACCAGC
CACTTGCTATTCAAGCTTCTCAGGAGCTGCTGAAACCCAGGTCACAGTTTGCTGTGGACATGCAGACAACATCC
TCCAGAGGACTGGTGTTCACACGGGCACTAAGAATCCTTTATGGCTCTTTATCTTTCAAAGGACGTCTGGTC
TTTGCCTGAGGACAGATGGGAAAAATTGAGGATCAAAAGCAAGGAGAAATGCAATGATGGGAAATGGCACACG
GTGGTGTGTGGCCATGATGGGAAAAAGGGCGCTTGGTTGTGGATGGACTGAGGGCCCGGGAGGGAGTTTGCCT
GGAACTCCACCATCAGCATCAGAGCGCCAGTTTACCTGGGATCACCTCCATCAGGGAAACCAAGAGCCTCCCC
ACAAACAGCTTTGTGGGATGCCTGAAGAACTTTCAGCTGGATTCAAACCCCTGTATACCCCTTCTTCAAGCTTC
GGGGTGTCTTCTGCTTGGGTGGTCCCTTTGGAGAAAGGCATTTATTTCTCTGAAGAAGGAGGTCTGTCGTCTTG
GCTCACTCTGTATTGTTGGGGCCAGAATTTAAGCTTGTTCAGCATCCGCCCAAGAAGTCTCACTGGGATCCTA
ATACACATCGGAAGTCAGCCCGGAAGCACTTATGTGTTTACCTGGAGGCAGGAAAGGTACAGGCCTCTATGGAC
AGTGGGGCAGGTGGGACCTCAACGTCGGTCACACCAAGCAGTCTCTGTGTGATGGACAGTGGCACTCGGTGGCA
GTCACCATAAAACAACACATCCTGCACCTGGAAGTGGACACAGACAGTAGCTACACAGCTGGACAGATCCCCTTC
CCACCTGCCAGCACTCAAGAGCCACTACACCTTGGAGGTGCTCCAGCCAATTTGACGACACTGAGGATCCCCTGTG
TGGAAATCATTCTTTGGCTGTCTGAGGAATATTATGTCAATCACATCCCTGTCCCTGTCACTGAAGCCTTGGAA
GTCCAGGGGCTGTGAGTCTGAATGGTTGTCCTGACCAGTAACCCCAAGCCTATTTACAGCAAGGAAATTCACCT
TCAAAGCACTGATTACCCAATGCACCTCCCTCCCCAGCTCGAGATCATTCTTCAATTAGGACACAAACCAGACA
GGTTTAAATAGCGAATCTAATTTGAATTCTGACCATGGATACCCATCACTTTGGCATTGAGTGTACATGTGTAT
TTTATATAAAAAATCCCATTCTTGAAGATAAAAAAATTGTTATTCAAATTGTTATGCACAGAATGTTTTGGTAA
TATTAATTTCCACTAAAAAATTAAATGTCTTTT

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FIGURE 5041

MGWLWIFGAALGQCLGYSSQQQRPVFLQPPGQSQLQASYVEFRPSQGCSPGYRDKGLYTGRCVPCNCNGHSNQ
CQDGSIGVCVNCQHNTAGEHCERCQEGYYGNAVHGSCRACPCPHNTNSFATGCVVNGGDVRCSCKAGYTGTQCERCA
PGYFGNPQKFGGSCQPCSCNSNGQLGSCHPLTGDCINQEPKDSSPAECCDDCDSCVMTLLNDLATMGEQLRLVKS
QLQGLSASAGLLEQMRHMETQAKDLRNQLLNYSASINHGSKIEGLERELTDLNQEFETLQEAQVNSRKAQTLN
NNVNRATQSAKELDVKIKNVIRNVHILLKQISGTDGEGNNVPSGDFSREWAEAQRMRELNRNFGKHLREAEAD
KRESQLLLNRIRTWQKTHQGENNGLANSIRDLSNEYEAKLSDLRLARLQEAQAQANGLNQENERALGAIQROV
KEINSLQSDFTKYLTTADSSLLQTNIALQLMEKSQKEYEKLAAASLNEARQELSDKVRELSRSAGKTSLVEEAKEH
ARSLQELAKQLEEIKNASGDELVRCAVDAATAYENILNAIKAAEDAANRAASASESALQTVIKEDLPRKAKTLS
SNSDKLLNEAKMTQKKLKQEVSPALNNLQQTLNIVTVQKEVIDTNLTTLRDGLHGIQRGDIDAMISSAKSMVRKA
NDITDEVLDGLNPIQTDVERIKDTYGRQNEDEKALTDADNSVNKLTKLPDLWRKIESINQQLPLGNISDNM
DRIRELIQQARDAASKVAVPMRFNGKSGVEVRLPNDLEDLKGYSLSLFLQRPNSRENGGTENMFVYLGKNDAS
RDYIGMAVVDGQLTCVYNLGDREAELQVDQILTKSETKEAVMDRVKFQRIYQFARLNYTKGATSSKPEPTGVYDM
DGRNSNTLLNLDPENNVFVYGGYPPDFKLPSRLSFPYKGCIELDDLNNVLSLYNFKKTFFNLNTEVEPCRRRK
EESDKNYFEGTGYARVPTQPHAPIPTFGQTIQTTVDRGLLFFAENGDRFISLNIEDGKLMVRYKLNSELPKERGV
GDAINNGRDHSIQIKIGKLQKRMWINVDVQNTIIDGEVDFDSTYYLGGIPIAIRERFNISTPAFRGCMKNLKKTS
GVVRLNDTVGVTKKCEDWKLVRASFSRGGQLSFTDLGLPPTDHLQASFGFQTFQPSGILLDHQWTRNLQVTI
EDGYIELSTSDSGGPIFKSPQTYMDGLLHYVSVISDNSGLRLLIDDQLLRNSKRLKHISSSRQSLRLGGSNFEGC
ISNVFVQRLSLSPVELDLTSNSLKRDSVSLGGCSLNKPPFLMLLKGSTRFNKTKTFRINQLLQDTPVASPRSVKVV
QDACSPLEKTOANHGALQFGDIPTSHLLFKLPQELLKPRSQFAVDMQTTSSRGLVFHTGTKNFSMALYLSKGRV
FALGTDGKKLRIKSKEKCNDGKWHTVVFGHDGEKGRLVVDGLRAREGSLPGNSTISIRAPVYLGSPPSGKPKSLP
TNSFVGCLKNFQLDSKPLYTPSSSFGVSSCLGGPLEKGIYFSEEGGHVVLHSAVLLGPEFKLVFSIRPRSLTGIL
IHIGSQPGKHLVCVYLEAGKVTASMDSGAGGTSTSVTPKQSLCDGQWHSVAVTIKQHILHLELDDSSYTAGQIPF
PPASTQEPLHLGGAPANLTLRIPVWKSFFGCLRNHVNHPVPVTEALEVQGPVSLNGCPDQ

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FIGURE 5042

CCTTTCTGCCC GTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCGTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCC GAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGT
GGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGG
GGCAGAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGT
TCCAGCAGCAGCAGTAGCTGTGTCAAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCC
AGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAAGTCAAGCCAGCACAGTGGTGGCAGGGCCTAGC
TGCTACAAAGAAGACATGTTT TAGACAAATACTCATGTGTATGGGCAAAAACCTCGAGGACTGTGTTTGTGACTA
ATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGCGTTTTAATGTAGAT

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FIGURE 5043

CCTTTCTGCCCCTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCCTGCCGTCATGTCCTAAGTCAGA
GTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGTGG
AAGCAATTTTGGAGGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCAT
GAAGGGAGGAAATTTTGGAGGCAGAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAAACACGAAA
CCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTGTGTGTCAGTGGCAGAAGATTTTAATTAGGAAACAAAGC
TTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAAGTCAAGCAAGCAC
AGTGGTGGCAGGGCCTAGCTGCTAC

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FIGURE 5044

MSKSKSPKEPEQQRKLFIGGLSFETTDESLRSHCEQWGMLTDCVVMRDPNFKHSRGC GFVTTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQLEAILQVVEATVILAITTISLQI
LDP

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FIGURE 5045

CCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAAGTATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCCACTTAAGTGTGAA
AAAGATATTGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGG
GAGGAAATTTTGGAGGCAGAACTCTGGCCCCCT

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FIGURE 5046

CCTTTCGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCGTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTTGTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAA
AATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGA
CCATGACTCCGTGGATAAGATTGTCAATCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGCCTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGG
TCGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTTCATGGAGGAACTTCAGTGGTTCGTGGTGGCTTTGGTGG
CAGCCGTGCTGGTGGTAGATATGGTGGCAGTGGGGATGGCTCTAATGGATTGGTAATGATGGAAGCAATTTTGG
AGGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAACTCTGGCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTA
TGGCGGTTCCAGCAGCAGCAGTAGCTGTGTGAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAG
GAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGG
GCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTGTTT
GTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTCTGTGGAAAGTGTAAGCATTCCAACAAAGCGTTTTAA
TGTAGATTTTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATGT
CTTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCAACAGTGTGAA
GTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATAACCTGCTTGGGTGGAGAAGCCATTG
TCTTCGGAACCTTGGTGTAGTTGAACCTGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAGGGATTACCC
AAACAAAGTCATGGAATGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTA
CCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAACAATTTAATTC
TCTTGAA

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FIGURE 5047

MSKSESPKEPEQLRKLF IGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVITYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPDALHTVKKIFVGGIKEDTEHHLRDYFEQYCKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSRGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYYN

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FIGURE 5048

AAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGA
GTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTC
ATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCAGCTCTAATGGATTGGTAATGATGGAAGCAATTTTG
GAGGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAA
ATTTTGGAGGCAGAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAACCACGAAACCAAGGTGGC

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FIGURE 5049

ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGA
GCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGA
GAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTA
TGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAA
GACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAA
GAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGG
GCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGCCGTGCTGGTGGTAGATATGG
TGGCAGTGGGGATGGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTT
TGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGG

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FIGURE 5050

TTTTCTTAGACATTAAGTGCAGACGGCTGGCAGGATAGAAGCAGCGGCTCACTTGGACTTTTTACCAGGGAAAT
CAGAGACAATGATGGGGCTCTTCCCCAGAACTACAGGGGCTCTGGCCATCTTCGTGGTGGTCATATTGGTTCATG
GAGAATTGCGAATAGAGACTAAAGGTCAATATGATGAAGAAGAGATGACTATGCAACAAGCTAAAAAGAAGGCAAA
AACGTGAATGGGTGAAATTTGCCAAACCCTGCAGAGAAGGAGAAGATAACTCAAAAAGAAACCCAATTGCCAAGA
TTACTTCAGATTACCAAGCAACCCAGAAAATCACCTACCGAATCTCTGGAGTGGGAATCGATCAGCCGCTTTTG
GAATCTTTGTTGTTGACAAAAACACTGGAGATATTAACATAACAGCTATAGTCGACCGGGAGGAACTCCAAGCT
TCCTGATCAGATGTCGGGCTCTAAATGCCCAAGGACTAGATGTAGAGAAACCCTTATACTAACGGTTAAATTT
TGGATATTAATGATAATCCTCCAGTATTTTCAACAATAATTTTCATGGGTGAAATTGAAGAAAATAGTGCCTCAA
ACTCACTGGTGATGATACTAAATGCCACAGATGCAGATGAACCAAAACCCTTGAATTCTAAATTCGCTTCAAAA
TTGTCTCTCAGGAACCAGCAGGCACCCATGTTCTCTAAGCAGAAACACTGGGGAAGTCCGTACTTTGACCA
ATTCTCTTGACCGAGAGCAAGCTAGCAGCTATCGTCTGGTTGTGAGTGGTGCAGACAAAGATGGAGAAGGACTAT
CAACTCAATGTGAATGTAATATTAAAGTGAAAGATGTCAACGATAACTTCCCAATGTTTAGAGACTCTCAGTATT
CAGCACGTATTGAAGAAAATATTTAAGTTCTGAATTACTTCGATTCAAGTAACAGATTGGATGAAGAGTACA
CAGATAATTGGCTTGCAGTATATTTCTTTACCTCTGGGAATGAAGGAAATTGGTTTGAATAACAACTGATCCTA
GAACTAATGAAGGCATCCTGAAAGTGGTGAAGGCTCTAGATTATGAACAACACTACAAAGCGTGAACTTAGTATTG
CTGTCAAAAACAAAGCTGAATTTACCAATCAGTTATCTCTCGATACCGAGTTTCACTCAACCCAGTCACAATTC
AGGTAATAAATGTAAGAGAAGGAATTGCATTCCGTCTGCTTCCAAGACATTTACTGTGCAAAAAGGCATAAGTA
GCAAAAATTTGGTGGATTATATCCTGGGAACATATCAAGCCATCGATGAGGACACTAACAAAGCTGCCTCAAATG
TCAAATATGTCATGGGACGTAACGATGGTGGATACCTAATGATTGATTCAAAAACCTGCTGAAATCAAATTTGTCA
AAAAATGAACCGAGATTCTACTTTCATAGTTAAACAAAACATCACAGCTGAGGTTCTGGCCATAGATGAATACA
CGGGTAAAACCTCTACAGGCACGGTATATGTTAGAGTACCCGATTTCAATGACAATTGTCCAACAGCTGTCTCTG
AAAAAGATGCAGTTTGCAGTTCTTACCTTCCGTGGTTGTCTCCGCTAGAACACTGAATAATAGATACACTGGCC
CCTATACATTTGCAGTGAAGATCAACCTGTAAAGTTGCCTGCCGTATGGAGTATCACAAACCTCAATGCTACCT
CGGCCCTCCTCAGAGCCAGGAACAGATACCTCCTGGAGTATACCACATCTCCCTGGTACTTACAGACAGTCAGA
ACAATCGGTGTGAGATGCCACGCAGCTTGACACTGGAAGTCTGTCACTGTGACAACAGGGGCATCTGTGGAACCT
CTTACCCAACCACAAGCCCTGGGACCAGGTATGGCAGGCCGCACTCAGGGAGGCTGGGGCTGCCGCCATCGGCC
TGCTGCTCCTTGGTCTCCTGTCTGCTGCTGTTGGCCCCCTTCTGCTGTTGACCTGTGACTGTGGGGCAGGTTCTA
CTGGGGGAGTGACAGGTGGTTTTATCCAGTTCTGTATGGCTCAGAAGGAACAATTCATCAGTGGGGAATTGAAG
GAGCCCATCCTGAAGACAAGGAATCACAAATATTTGTGTGCTCCTGTAAACAGCCAATGGAGCCGATTTTCATGG
AAAGTTCTGAAGTTTGTACAAATACGTATGCCAGAGGCACAGCGGTGGAAGGCACTTCAGGAATGGAAATGACCA
CTAAGCTTGGAGCAGCCACTGAATCTGGAGGTGCTGCAGGCTTTGCAACAGGGACAGTGTCAAGAGCTGCTTCAG
GATTCCGAGCAGCCACTGGAGTTGGCATCTGTTCTCAGGGCAGTCTGGAACCATGAGAACAAGGCATTCCACTG
GAGGAACCAATAAGGACTACGCTGATGGGGCGATAAGCATGAATTTCTGGACTCCTACTTTTCTCAGAAAGCAT
TTGCCGTGTGCGGAGGAAGACGATGGCCAGGAAGCAAATGACTGCTTGTGATCTATGATAATGAAGGCGCAGATG
CCACTGGTTCTCCTGTGGGCTCCGTGGGTTGTGCAATTTTATGCTGATGACCTGGATGACAGCTTCTTGGACT
CACTTGGACCCAAATTTAAAAAACTTGCAGAGATAAGCCTTGGTGTGATGGTGAAGGCAAAGAAGTTTCAGCCAC
CCTCTAAAGACAGCGGTTATGGGATTGAATCCTGTGGCCATCCCATAGAAGTCCAGCAGACAGGATTTGTTAAGT
GCCAGACTTTGTGAGGAAGTCAAGGAGCTTCTGCTTTGTCCGCTCTGGGTCTGTCCAGCCAGCTGTTTCCATCC
CTGACCCCTCTGCAGCATGGTAATATTTAGTAACGGAGACTTACTCGGCTTCTGGTTCCCTCTGTGCAACCTTCCA
CTGCAGGCTTTGATCCACTTCTCACACAAAATGTGATAGTGACAGAAAGGGTGATCTGTCCCATTTCAGTGTTT
CTGGCAACCTAGCTGGCCCAACGCAGCTACGAGGGTACATACATGCTCTGTACAGAGGATCCTTGCTCCCGTC
TAATATGACACAGAATGAGCTGGAATACCACACTGACCAATCTGGATCTTTGGACTAAAGTATTCAAAATAGCAT
AGCAAAGCTCACTGTATTGGGCTAATAATTTGGCACTTATTAGCTTCTCTATAAACTGATCAGGATTATAAAT
AAATGTTTGGGTTTATACCCCAAAGCAATATGTGTCACTCCTAATCTCAAGTACTATTCAAATGTAGTAA
TCTTAAAGTTTTTCAAACCTAAAATCATATTGCGC

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FIGURE 5051

MMGLFPRTTGALAIFVVVILVHGELRIETKGQYDEEEMTMQQAARRQKREWVKFAKPCREGEDNSKRNP IAKITS
DYQATQKITYRISGVGIDQPPFGIFVVDKNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDI
NDNPPVFSQQIFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFLLSRNTGEVRTLTNSL
DREQASSYRLVVSGADKDGEGLSLQCECNKVKVDVNDNFMFRDSQYSARIEENILSSELLRFQVTDLDEEYTDN
WLAVYFFTSGNEGNWFEIQTDPRTNNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI
NVREGIAFRPASKTFTVQKGISSKKLVDYILGTYQAIDEDTNKAASNVKYMGRNDGGYLMIDSKTAEIKFVKNM
NRDSTFIVNKTITAEVLAIDEYTGKTSTGTVYVRVPDFDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTGPYT
FALEDQPVKLPVWSITTLNATSALLRAQEIQPPGVYHISLVLTDSQNNRCEMPRSLTLEVCQCDNRGICGTSYP
TTSPGTRYGRPHSGRLGPAAIGLLLLLGLLLLLLAPLLLLLTCDGAGSTGGVTGGFIPVPDGSEGTIHQWGIEGAH
PEDKEITNICVPPVTANGADFMESEVCTNTYARGTAVEGTSGMEMTTKLGAATESGGAAGFATGTVSGAASGFG
AATGVGICSSGQSGTMRTRHSTGGTNKDYADGAISMNFLDSYFSQKAFACAEEDDGQEANDCLLIYDNEGADATG
SPVGSVGCCSFIADDLDDSLDSLGPKFKKLAEISLGVDGEGKEVQPPSKDSGYGIESCGHPIEVQQTGFVKCQT
LSGSQGASALSASGSVQPAVSIPDPLQHGNYLVETETYSAGSLVQPSTAGFDPLLTONVIVTERVICPISSVPGN
LAGPTQLRGSHTMLCTEDPCSRLI

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FIGURE 5052

CCCACGCGTCCGGATGGTCTCTGGTCACAAAATATTAAAGAGACCGACCGCTAAGGGAACAGGAAAAACGTCCGAG
ACAGCCGTTGCAATTACGAATGGACCAGACTTGGTAGCACGGGGCATTGATTGCTGGTGCCCAACCGGACCCTCC
TCCCCTCTTCCCATCCCTTCCCCACCCAAAGCAGGCTCCCGCTGCGGCCGGGACCTCGCATCCCTGCAACGTGG
CCGGGGCTGCATTTTTTTCATGAGCCTAGGGTGAACAGGTGCGAAGTGCCTGGGAGCATCCGGCCAGCGCCGAGC
GCGGGGAACATGGAGAGCGAGCGCGACATGTACCGCCAGTTCCAGGACTGGTGCTCAGGACTTACGGGGACTCA
GGCAAGACCAAGACGGTGACCCGTAAAAAATACGAACGGATCGTCTAGCTCCTCAATGGCTCCGAGTCGAGCTCC
ACGGACAACGCCAAATTTAAATTCTGGGTCAAATCGAAGGGCTTCCAGCTGGGCCAGCCGGACGAGGTCCGCGGG
GGAGGCGCGCGCCAAGCAAGTGCTCTAGTGCTGTCAAGACCACGGATGGCGTAGGGGTAGATGAGAAGCTAT
CTTTACGACGGGTAGCTGTGGTTGAAGATTTCTTTGACATTATTTATTTCGATGCATGTGGAACGGGGCCAAATG
GAGAACAAATTCGGAAACACGCTGGACAAAAGAGAACTTACAAAGCAATTTAGAGAGCTATGCCTTCTACCAA
GAGAAGCGGTGACACGATTTCTAATGAGCTGCTCAGAGTGCCAGAAAAGAATGCATTTAAACCCAGATGGAACAG
ATCATAAAGATAATGGAACCTCCCACTTTGGTGACCAGCATGATTGACTACAACATGCCAATTACCATGGCCT
ACATGAAACACATGAAGCTGCAGCTGCTAACTCACAGCAAGATGAGGATGAAAGTTCAATAGAAAGTGATGAAT
TTGACATGAGTGATTCAACACGGATGTGAGCTGTGAACTCTGATCTTAGCTCCAATCTTGAAGAAAGAATGCAAA
GTCCCCAGAACTTTCATGGCCAGCAAGATGATGATTCTGCTGCAGAGAGCTTTAATGGCAATGAGACTCTGGGGC
ACAGTTCAATTGCTTCAGGGGGAACACACAGCAGGGAGATGGGAGACTCCAACAGTGATGGCAAACTGGGCTGG
AGCAAGATGAACAGCCACTGAACCTGAGTGACAGTCCCCTCTCTGCGCAGCTAACTTCGGAATACAGAAATAGATG
ATCACAACAGTAATGGGAAAAACAAGTATAAGAATCTTCTAATTTCTGACCTCAAGATGGAACGAGAGGCGAGAG
AAAATGGAAGCAAGTCTCCTGCACATAGTTACTCCAGCTATGACTCTGGCAAAAATGAGAGTGATAGCCGAGGAG
CTGAGGACCTCTCACTAAACAGGGGAGATGAGGACGAAGATGACCACGAGGACCATGACGATTCGGAGAAAGTTA
ATGAGACAGACGGCGTTGAAGCCGAGCGGCTGAAAGCTTTAATATGTTTGTGAGGCTGTTGTAGATGAAAAC
TGGACCGAATGGTCCCAATCTCTAAGCAGCCCAAGAAAAGATCCAGGCTATCATTGACTCATGCAGGCGACAAT
TCCCTGAGTATCAAGAGCGTGCCAGAAAACGTATACGTACTTACCTCAAGTCTGCGAGCGGATGAAAAGAAGTG
GTTTTGAGATGTCTCGACCTATTCTTCCCACCTTACTTCAGCAGTTGCAGAGAGTATCTTGGCTTCAGCTTGTG
AGAGTGAGAGTAGAAATGCCGCCAAGAGGATGCGTCTGGAGAGACAGCAGGATGAGTCTGCTCCAGCTGACAAAC
AGTGTAACAGAGGGCGACCCAGGCCACTTACTCAACATCAGCTGTTCCAGGCTCACAGGACGTGCTGTACATCA
ATGGAATGGGACCTATAGTTACCATAGTTACAGAGGGCTAGGAGGGGGTCTGCTAAATCTGAATGATGCTTCCA
GCAGTGACCCACTGATCTCAGCATGAAGAGACAATTGGCGACTAGCTCAGGATCCTCCAGCAGCTCAAACCTCA
GACCCAGCTGAGTCCAATGAAATCAATGCCGTGAGACAGCTTGTGTCAGGATATCGAGAATCAGCTGCATTTT
TATTGCGATCTGCAGATGAACCTGGAAAATCTCATTTTACAACAGAACTGAGACAGACGACCACCATATTCTGA
GGTCTAAATTTGCAGTTCCACTAATGACATTTTGTATTTCCAACAGAGATACTTCTGGTCTTACTGCACAGTCTT
TTAAGAGAAATACTTCCATTATGCCACATTGTCCTTGATCCGTAAGTGATGTGTTAAGGTGCTTCAAAGGAACTC
TGACCTCTGAAGTACTTGAGCTACTTTAGTATGTCCAGCCTATTGCTTTTGTGTTTGTGTTGTCACCATAAATAT
CAGGGGCATAAAAGGCTATCTATTCTTAATTCAGGATAAAACAGAAGAGCTTGTGGTATAAAACAATAGTTCA
AGATCCAGCTGAAATATTAGTGGAATTTGCTACTGACTCATTGGACTGAAAGCTGAAGTACCTGGCAAAAAA

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FIGURE 5053

MHVETGPNGEQIRKHAGQKRTYKAISESYAFLPREAVTRFLMSCSECQKRMHLNPDGTDHKDNGKPPTLVTSMD
YNMPITMAYMKHMKLQLLNSQQDEDESSIESDEFDMSDSTRMSAVNSDLSSNLEERMQSPQNLHGQQDDDSAAES
FNGNETLGHSSIASGGTHSREMGSNSDGKTGLEQDEQPINLSDSPLSAQLTSEYRIDDHNSNGKNKYKNLLISD
LKMEREARENGSKSPAHSYSSYDSGKNESVDRGAEDLSINRGDEDEDHEDHDDSEKVNETDGVEAERLKAFNMF
VRLFVDENLDRMVPISKQPKEKIQAIIDSCRRQFPEYQERARKRIRTYLKSCRRMKRSGFEMSRPIPSHLTSAVA
ESILASACESESRNAAKRMRLERQQDESAPADKQCKPEATQATYSTSAVPGSQDVLYINGNGTYSYHSYRGLGGG
LLNLNDASSSGPTDLSMKROLATSSGSSSSNSRPQLSPTEINAVRQLVAGYRESAAFLLSADELENLILQQN

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FIGURE 5054

ATCTTGCTGGTTTGC GGCCGGTCTTG GATGAAGCGGCGGCCGTGGTGAGAGCGTGGGGAAGGGTGGGGTGAGGGG
GCGAGGCCGAGCTAGGGCGGCGAAACTCTCTCCCTCGGCCCCACCGCGTGGGACGGCGTGAACTGGTGTCTG
GAGGGATGTCAGCCTTCTCTGAGGCGGCGCTGGAGAAGAAGCTGTCGGAGTTGAGCAACTCGCAGCAGAGCGTGC
AGACCTTGTCCTGTGGCTCATTACCACCGTAAACACTCGCGTCCCATCGTCACCGTGTGGGAGCGGGAGCTGC
GGAAAGCCAAACAAACAGGAAGCTTACTTTTCTCTACCTAGCCAATGATGTCATACAGAACAGCAAGAGGAAGG
GGCCAGAGTTTACAAAAGATTTG CACCAGTTATAGTGGAGGCTTTTAAGCATGTTTCAAGTGAACTGATGAAA
GTTGTAAGAAGCACCTTGGAAGAGTGTTATCTATTTGGGAAGAAAGGTCTGTTTATGAAAATGATGTATTAGAAC
AACTTAAACAAGCTCTGTATGGTGATAAGAAGCCTAGGAAGCGAACTTATGAACAGATAAAGGTGGATGAAAATG
AAAAGTGTCTCTCTGGGATCTCCAAGTGAACCACCACAGACTCTAGATCTCGTTAGAGCATTACAAGATCTGG
AAAATGCAGCCTCAGGTGATGCAGCAGTTTCATCAGAGGATAGCTTCTTTACCTGTTGAAGTCCAAGAAGTATCTC
TATTAGATAAAATAACAGATAAAGAATCTGGAGAAAGGCTTTCCAAAATGGTAGAGGATGCGTGTATGTTGCTGG
CAGATTACAATGGCAGATTGGCGGCAGAAATAGATGATAGAAAGCAACTCACTCGAATGTTAGCAGATTTTCTTC
GTTGTCAAAGGAAGCCCTTG CAGAGAAAGAGCATAAATTGGAAGAGTACAAGCGCAAGCTAGCCAGAGTTTCCC
TGGTGCGCAAAGAACTCAGGTCCCGGATCCAGAGCCTGCCAGACTTATCTCGATTGCCCAATGTCTAGTGGCAGCC
ACATGCACCTGCCCTTTGCGGGAGACATCTACAGTGAAGATTGATGGACCAGCCTCTTCCAGGTCCCAGGACTT
TGCAAGAGATGGAGACAGGTTAGGTGGATAGTCTGTAGTGTTATTTTGTATATTGTTGAGAAAGAAACACTAA
CAAAAGGAACAACGAGTAATTTATAAAATTGTTTAAATGTTGGTTGTTTACTATTTTATTGGTAAATTAACAT
GACTTAATTTGAACAAAGTGATGATTTGTGTGTATTAATAAGCTCACAATAAGTGATTATTTTCAAAGATCTTT
TTGTAAATTTTTTTTTTGTATCCAAGGCCTTGTGAGAAATCTCTGTTTGTATTTCTTCAGGTATTTTCAATTGTT
TTTCTTTATTTTCTTCAGCAITTAATCACTGTATACTATGTAATTCCTGAAGGGGAAGAACTAATTAGGAGTTGA
TTGAGACTTTTATTATGGTATAGTTAGGACTTGATTGTAGAAGGGACTAAATGTTCCAACATAATCTTTACCCTTC
TCCCCAAACAAAATATCAATTTCTGTGTCTCTACATGCCTTTGATTCCCTTAGAGGTCGGTAATTTAACATAAAACA
GGGATGTCACCTTGAGGGGCAGATGAAAGTCTAGAGAAGTGTTCCTTAATAGCATTGTAAAAGTTCATTCCAAC
TGCCAGTGTAGATTTTAAAGTGTTAAATAGTGAAGTCCCTTGATTAAACTGTTTGTAATTATTTGAGTAGATTAA
TAATGAAAATACCTTTGGAAATAATATACATTTTGACATTCTACCAAGAGGACAACCTTGGTCTGGAAGTGGTTT
CTATTTGTCAAATCAGTTTCTTTTAAACATAATTAATCCCTTTAAACAAAAGCCGCTCTATGGGATTTAAAGACAC
GTGAAATGATACTTTTATTATTCCTTGCTCATATAACTTTAAAAATAATACTTTTAGCTCTAATAGCTCAAGAA
CACAAATATTCGTTAATGTTTCAAGTAGCCTGAGACATTTTCAATGTTTCTTAAGGTTTTTGAATGACTGTA
TATTTGGCAGTTAAGCAGTGCCACACTACAGGGTAGATATGGTAAATTTTATATTTGTATTTACAGTTACAAA
ACAAATGTACTTTTACCTTTTATTTCTGACCCTGTGTGTAGAGCAGTTGCATGCTCTCTGCTGTTAAAAACAC
ATTGTTAAGCTGTGGATTTGTACTCAATAATGACTTAGGATAAACATTTATTTTATTTCATTGCTTTACATACTA
GACATTTTCTCTCTTGTAGTAGATTCAAATTAGATAGTCAATAAAACATCTTGAAAATCCCACAAGCC

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FIGURE 5055

ACCGCGTGTTCGCGCCTGGTAGAGATTTCTCGAAGACACCAGTGGGCCCCGTTCCGAGCCCTCTGGACCGCCCGTG
TGGAACCAAACCTGCGCGCGTGGCCGGGCGGTGGGACAACGAGGCCGCGGAGACGAAGGCGCAATGGCGAGGAAG
TTATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTACAAAATCCCCTTCATGAACATAAAGCAGCTGCTTTC
CCCCAGACCACTGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAAATGTTGACTTGGCAATTTCCACACGGCAA
TATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAATAATTCTTTGTCAAGTTGAAGGGTTCAGAAAATTACTT
CAAAATATAGGCATAGATAAGATTAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCAT
CACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGAGCAGGAGCATCACTCTGACCATGATCATCAC
TCTCACCATAATCATGTGCTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCAGACCATGACTCAGATAGTTCA
GGTAAAGATCCTAGAAACAGCCAGGGGAAAGGAGCTCACCGACCAGAACATGCCAGTGGTAGAAGGAATGTCAAG
GACAGTGTGTAGTGTAGTGAAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACTCACTTTCTAGAGACA
ATAGAGACTCCAAGACCTGGAAAACCTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTACATCAAAG
AGCCGGGTGAGCCGGCTGGCTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCC
AGAAACACAAATGAAAATCCTCAGGAGTGTTCATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAG
GTTCCGCTGAATGCAACAGAGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTGATGCTAGATCTGTCTG
ATTCATACAAGTGAAGAAGGCTGAAATCCCTCCAAAGACCTATTCAATACAAATAGCCTGGGTTGGTGGTTTT
ATAGCCATTTCCATCATCAGTTTCTGTCTCTGCTGGGGTTATCTTAGTGCCTCTCATGAATCGGGTGTTTTTTC
AAATTTCTCCTGAGTTTCTTGTGGCACTGGCCGTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTTCCA
CATTCTCATGCAAGTCACCACCATAGTCATAGCCATGAAGAACCAGCAATGGAAATGAAAAGAGGACCACTTTTC
AGTCATCTGTCTTCTCAAAACATAGAAGAAAGTGCTATTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGA
GGCCTGTATTTTATGTTTTCTTGTGAACATGTCTCACATTGATCAAACAATTTAAAGATAAGAAGAAAAGAAT
CAGAAGAAACCTGAAAATGATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACA
AATGAGGAGAAAGTAGATACAGATGATCGAAGTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTT
GATTCTCAGCAGCCTGCAGTCTTGGAAAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAAT
GAATATGTACCCAGAGGGTGCAAGAATAAATGCCATTACATTTCCACGATACACTCGGCCAGTCAGACGATCTC
ATTACACCACCATCATGACTACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCCTCACAGTCACAGC
CAGCGCTACTCTCGGAGGAGCTGAAAGATGCCGGCTCGCCACTCTGGCCTGGATGGTGATAATGGGTGATGGC
CTGCACAATTTACGCGATGGCCTAGCAATTGGTGTGCTTTTACTGAAGGCTTATCAAGTGGTTAAGTACTTCT
GTTGCTGTGTTCTGTCTAGTGTGCTCATGAATTAGGTGACTTTGCTGTCTACTAAAGGCTGGCATGACCGTT
AAGCAGGCTGTCTTTATAATGCATTGTGAGCCATGTGGCGTATCTTGAATGGCAACAGGAATTTTCATTGGT
CATTATGCTGAAAATGTTTCTATGTGGATATTTGCACCTACTGCTGGCTTATTCATGTATGTTGCTCTGGTTGAT
ATGGTACCTGAAATGCTGCACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGTATTTCTTTTTACAGAAAT
GCTGGGATGCTTTTGGGTTTTGGAATTATGTTACTTATTTCCATATTTGAACATAAAATCGTGTTCGTATAAAT
TTCTAGTTAAGGTTTTAAATGCTAGAGTAGCTTAAAAAGTTGTCATAGTTTCAGTAGGTATAGGGAGATGAGTTT
GTATGCTGTACTATGCAGCGTTTTAAAGTTAGTGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAA
GTCAGTTAAAGGTACGTTTTAATATTTAAGTTATTCTATCTTGGAGATAAAATCTGTATGTGCAATTCACCGGTA
TTACCAGTTTATTATGTAAACAAGAGATTGGCATGACATGTTCTGTATGTTTCAGGGAAAAATGCTTTTAAATGC
TTTTTCAAGAACTAACACAGTTATTCTTATACTGGATTTTAGGTCTCTGAAGAACTGCTGGTG

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FIGURE 5056

AGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACGTGTTTTGCTGCCCAAACCGGGTGCGGGGAGTCTT
GAACTGGAGCTCTGGGCCCAGAGGACTTCTGGCCTTTGGCACGTCTGCTCCGTGGTGCTCTATGACCCCTGAA
AAGGGTTGTTGTTACCAACTTGAATGGTCACACCGCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGATGG
CTCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCACTGGGAAATAGAGGATAATCAGCT
TTTAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTATGCGGTGCATGCTGTTTACCAGAGGAGGACATC
AGATCCTGCATTATGTACACTGATCGTTTCTGCAGCTGCAGATTCTGCTGTTGACTCTGGTCTAAAAAGGGTCC
AGAAGTAATGTGCCTTCAGACTTTAAACTTTGGAAATGGATTTGCTTTGGCTCTCTGCTTATCTTTTTTGCCAA
TACTGATGTACCAATATTAGCATGTGGCAATGATGATTGCAGAATTCACATATTTGCTCAACAAAATGATCAGTT
TCAGAAAGTGCTTTCTCTCTGTGGACATGAGGATTGGATTAGAGGAGTGAATGGGCAGCCTTTGGTAGAGATCT
TTTCTAGCAAGCTGTTTACAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAAGTCAACATCTTTAGAAAC
TCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTACCATAGAAAATGAAAGTGTAAATAGCATTGTC
TGTTACTCTGGAGACAGTGCTAGCCGGTCATGAAAAGTGGGTAAATGCAGTTCAGTGGCAACCTGTGTTTTACAA
AGATGGTGCTCTACAGCAGCCAGTGAGATTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGA
TGAAGAGTCAGGAGTTTGGCTAGAACAGGTTTCAGTAGGTGAAGTAGGTGGGAATACTTTGGGATTTTATGATTG
CCAGTTCAATGAAGATGGCTCCATGATCATTGCTCATGCTTTCCACGGAGCGTTGCACCTTTGGAAACAGAATAC
AGTTAACCCAAGAGAGTGGACTCCAGAGATTGTCATTTCAGGACACTTTGATGGTGTTCCAGACCTAGTCTGGGA
TCCAGAAGGAGAAATTTATTACTGTTGGTACTGATCAGACAACTAGACTTTTTGCTCCATGGAAGAGAAAAGA
CCAATCACAGGTGACTTGGCATGAAATTGCAAGGCCCTCAGATACATGGGTATGACCTGAAATGTTTGGCAATGAT
TAATCGGTTTTAGTTTGTATCTGGAGCAGATGAAAAAGTTCTTCGGGTTTTTCTGCACCTCGGAATTTTGTGGA
AAATTTTTGTGCCATTACAGGACAATCACTGAATCATGTGCTCTGTAATCAAGATAGTGATCTTCCAGAAGGAGC
CACTGTCCCTGCATTGGGATTATCAATAAAGCTGTCTTTCAGGGAGATATAGCTTCTCAGCCTTCTGATGAAGA
GGAGCTGTTAACTAGTACTGGTTTTGAGTATCAGCAGGTGGCCTTTCAGCCCTCCATACTTACTGAGCCTCCAC
TGAGGATCATCTTCTGCAGAATACTTTGTGGCCTGAAGTTCAAAAACATATATGGGCACGGTTATGAAATATTTG
TGTTACTTGTAAACAGTTCAAAGACTCTGCTTGCCTCAGCTTGTAAGGCAGCTAAGAAAGAGCATGCAGCTATCAT
TCTTTGGAACACTACATCTTGAAACAGGTGCAGAATTTAGTTTTCCACAGTTTGACAGTCACGCAGATGGCCTT
CTCACCTAATGAGAAGTTCTTACTAGCTGTTTCCAGAGATCGAACCTGGTCATTGTGGAAAAAGCAGGATACAA
CTCACCTGAGTTCGAGCCAGTTTTTAGTCTTTTTGCCTTACCAACAAAATTACTTCTGTGCACAGTAGAATTAT
TTGGTCTTGTGATTGGAGTCTTGACAGCAAGTATTTCTTCACTGGGAGTCGAGACAAAAGGTGGTGTCTGGGG
TGAGTGGGACTCCACTGATGACTGTATTGAGCACAACATTGGCCCCTGCTCCTCAGTCCTGGACGTGGGTGGGGC
TGTGACAGCTGTGACGCTCTGCCAGTGTCCACCCTTCTCAACGATACGTGGTTGCAGTAGGATTGGAGTGTGG
AAAGATTTGCTTATATACCTGGAAAAAGACTGATCAAGTTCAGAAATAAATGACTGGACCCACTGTGTAGAAAC
AAGTCAAAGCCAAAGTCATACACTGGCTATCAGAAAATTATGCTGGAAGAATTGCAGTGGAAAAACTGAACAGAA
GGAAGCAGAAGGTGCTGAGTGGTTACACTTTGCAAGCTGTGGTGAAGATCACACTGTGAAGATACACAGAGTCAA
TAAATGTGCACTGTAATGG

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FIGURE 5057

MVAPVLETSHVFCCPNRVRGVLNWSSGPRGLLAFGTSCSVVLYDPLKRVVVTNLNGHTARVNCIQWICKQDGSPS
TELVSGGSDNQVIHWEIEDNQLLKAVHLQGHEGPVYAVHAVYQRRISDPALCTLIVSAAADSAVRLWSKKGPVEM
CLQTLNFGNGFALALCLSFLPNTDVPILACGNDDCRIHIFAQQNDQFQKVLSLCGHEDWIRGVEWAAFGRDLFLA
SCSQDCLIRIWKLYIKSTSLETQDDDNIRLKENTFTIENESVKIAFAVTLETVLAGHENWVNAVHWQPVFYKGV
LQQPVRLLSASMDKTMILWAPDEESGVWLEQVRVGEVGGNTLGFYDCQFNEDGSMIIAHAFHGALHLWKQNTVNP
REWTPEIVISGHFDGVQDLVWDPEGEFIITVGTDTTRLFAPWKRKQSQVTWHEIARPQIHGYDLKCLAMINRF
QFVSGADEKVLRVFSAPRNFVENFCAITGQSLNHVLCNQSDLPAGATVPALGLSNKAVFQGDIAQPSDEEELL
TSTGFEYQQVAFQPSILTEPPTEDHLLQNTLWPEVQKLYGHGYEIFCVTCNSSKTLASACKAAKKEHAAIILWN
TTSWKQVQNLVFHSLTVTQMAFSPNEKFLAVSRDRTWSLWKKQDTISPEFEPVFSLFAFTNKITSVHSRIIWSC
DWSPDSKYFFTGSRDKKVVVWGECDSTDDCIEHNIGPCSSVLDVGGAVTAVSVCPVLHPSQRYVVAVGLECGKIC
LYTWKKTQVPEINDWTHCVETSQSQSHTLAIRKLCWKNCSGKTEQKEAEGAEWLHFASCGEDHTVKIHRVNKCA
L

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FIGURE 5058

CTCTCCTCCCGCCGCCCAAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCCTGCTGTCTG
TGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGCTTGAGAAAAGGCCTAAGAATTTTGGCATTGGACAGG
ACATCCAGCCCAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCA
TCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAAACAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTC
AGCTGCTTAAGCTGGCCCAAAATACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGCTGGCCCGGGAGG
AGAAGAAAGCTGCTGGCAAAGGGGACGTCCCCACGAAAAGACCACCTGTCCTTCGAGCAGGAGTTAATACCGTCA
CCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTAATTGCACATGACGTGGATCCCATCGAGCTGGTTGTCT
TCTTGGCTGCCCTGTGTCTGTAATAATGGGGGTCCCTTACTGCATTATCAAGGGGAAGGCAAGACTGGGACGTCTAG
TCCACAGGAAGACCTGCACCCTGTCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCACTTTGGCTAAGCTGA
TGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCACTGGGGCGGCAACGTCCTGGGTC
CTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAGACCTTGCCACTAAACTGGGTAAATGT
ACACTGTTGAGTTTCTGTACATAAAAATAATTAAAATAATACAAATTTCTTC

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FIGURE 5059

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLLEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAKYRPETKQEKQRLAREEKKAAAGKGDVPTKRPPVLRAGVNTVTTLVENK
KAQLVVIAHDVDPIELVVFLAALCRKMGVPYCIKKGARLGRVHRKTCTTVAFTQVNSEDKGTLAKLMEAIRTN
YNDRYDEIRRHWGGENVLGPKSVARIAKLEKAKAKDLATKLG

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FIGURE 5060

GGCACGAGGGCGGGGCGCATCTCCCGCTAGGAGTTCTAGTAAAGTGGCGGGAGCCGCAGCTATGAGCCGCAGG
AGGAGAGAGAAAACGCAGGTTGCTGCGTGGTTAAAAAAATATTTGGAGATCATCCTATTCCACAGTATGAGGTGA
ACCCACGGACCACAGAGATTTTACATCACCTTTCAGAACGCAACAGGGTCCGGGACAGGGATGTCTACCTGGTAA
TAGAGGACTTGAAGCAGAAAGCAAGTGAATACGAGTGCAGAAGCCAAGTATCTTCAAGACCTTCTCATGGAGAGTG
TGAATTTTTCCCCCGCCAATCTCTCTAGCACTGGTTCCAGGTATCTGAATGCTTTGGTTGACAGTGCAGGTGGCCC
TTGAAACAAAGGATACCTCGCTAGCTAGTTTTATCCCTGCAGTGAATGATTTGACCTCTGATCTCTTTCGTACCA
AATCCAAAAGTGAAGAAATCAAGATTGAACTGGAAAACTTGAAAAAAATTTAACTGCAACTTTAGTATTAGAAA
AATGTCTACAAGAGGATGTCAAGAAAGCAGAGTTGCATCTGTCTACAGAAAGGGCCAAAGTTGATAATCGTCGTC
AGAACATGGACTTTCTAAAAGCAAAGTCAGAGGAATTCAGATTTGGAATCAAGGCTGCAGAGGAGCAACTTTCAG
CCAGAGGCATGGATGCTTCTCTGTCTCATCAGTCCTTAGTAGCACTATCAGAGAACTGGCAAGATTAAAGCAAC
AGACTATACCTTTGAAGAAAAAATTTGGAGTCCTATTTAGACTTAATGCCGAATCCGTCTCTTGCTCAAGTGAAAA
TTGAAGAAGCAAAGCGAGAAGTATAGCATTGAAGCTGAACTTACAAGAAGAGTAGACATGATGGAAGCTGTGAC
AAAAGCCAAATAAACATCCTTTTCCCTAACAAAGTAAATTGAATAGGACTTTACAGAGTTCTTTTCCCTCTTGGC
ATTTCCCTAATAACAAAACCTTTCTGTGTTCTTAGATTACAGAATATCATAATTGATAGAATATGGTTTCTTACTGT
GTGTTGCATTTTGTGCCCAAATACATAGTTTTTCATATTAAAAAGCCTTTTCTCTTAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5061

MEPQEERETQVAAWLKKIFGDHPIQYEVNPRTEILHHLSENRVRDRDVYLVIEDLKQKASEYESEAKYLQDL
LMESVNFSPANLSSTGSRYLNALVDSVALETKDTSASFIPAVNDLTSDLFRTKSKSEEIKIELEKLEKNLTAT
LVLEKCLQEDVKKAEHLHLSTERAKVDNRRQNMDFLKAKSEEFRTGKAAEEQLSARGMDASLSHQSLVASEKLA
RLKQQTIPLKKKLESYLDLMPNPSLAQVKIEEAKRELDSEAELTRRVDMMEL

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FIGURE 5062

GTCCCAGTCAGTCCGGAGGCTGCGGCTGCAGAAGTACCGCCTGCGGAGTAACTGCAAAGATGCTGTCCGTGCGCG
TTGCTGCGGCCGTGGTCCGCGCCCTTCCTCGCGGGCCGGACTGGTCTCCAGAAATGCTTTGGGTTTCATCTTTCA
TTGCTGCAAGGAACTTCCATGCCTCTAACACTCATCTTCAAAGACTGGGACTGCTGAGATGTCTCTATTCTTG
AAGAGCGTATTCTTGGAGCTGATACCTCTGTTGATCTTGAAGAACTGGGCGTGTCTTAAGTATTGGTGATGGTA
TTGCCCCGCTACATGGGCTGAGGAATGTTCAAGCAGAAGAAATGGTAGAGTTTCTTCAGGCTTAAAGGGTATGT
CCTTGAACCTGGAACCTGACAATGTTGGTGTGTGTCGTGTTTGGAAATGATAAACTAATTAAGGAAGGAGATATAG
TGAAGAGGACAGGAGCCATTGTGGACGTTCCAGTTGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGGTA
ATGCTATTGATGGAAGGGTCCAATTGGTTCCAAGACGCGTAGGCGAGTTGGTCTGAAAGCCCCCGGTATCATT
CTCGAATTTAGTGCAGGGAACCAATGCAGACTGGCATTAAAGGCTGTGGATAGCTTGGTGCCAATTGGTCTGGTC
AGCGTGAACCTGATTATTGGTGACCGACAGACTGGGAAAACCTCAATTGCTATTGACACAATCATTAAACCAGAAAC
GTTTCAATGATGGATCTGATGAAAAGAAGAAGCTGTACTGTATTTATGTTGCTATTGGTCAAAAGAGATCCACTG
TTGCCCAGTTGGTGAAGAGACTTACAGATGCAGATGCCATGAAGTACACCATTGTGGTGTGCGGCTACGGCCTCGG
ATGCTGCCCCACTTCAGTACCTGGCTCCTTACTCTGGCTGTTCCATGGGAGAGTATTTTAGAGACAATGGCAAAC
ATGCTTTGATCATCTATGACGACTTATCCAAACAGGCTGTTGCTTACCGTCAGATGTCTCTGTTGCTCCGCCGAC
CCCCTGCTGCTGAGGCCTATCCTGGTGATGTGTCTACCTACACTCCCGGTTGCTGGAGAGAGCAGCCAAAATGA
ACGATGCTTTTGGTGGTGGCTCCTTGACTGCTTTGCCAGTCATAGAAACACAGGCTGGTGATGTGTCTGCTTACA
TTCCAACAAATGTCATTTCCATCACTGACGGACAGATCTTCTTGAAACAGAATTGTTCTACAAAGGTATCCGCC
CTGCAATTAACGTTGGTCTGTCTGTATCTCGTGTGCGGATCCGCTGCCCAAACCAGGGCTATGAAGCAGGTAGCAG
GTACCATGAAGCTGGAATTGGCTCAGTATCGTGAGGTTGCTGCTTTTGCCAGTTCGGTTCTGACCTCGATGCTG
CCACTCAACAACTTTTGAAGTCGTGGCGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATTCTCCCATGGCTA
TTGAAGAACAAGTGGCTGTTATCTATGCGGGTGTAAAGGGGATATCTTGATAAACTGGAGCCCAGCAAGATTACAA
AGTTTGAGAAATGCTTTCTTGTCTCATGTGTCAGCCAGCACCAAGCCTTGTTGGGCACTATCAGGGCTGATGGAA
AGATCTCAGAACAATCAGATGCAAAGCTGAAAGAGATTGTAACAAATTTCTTGGCTGGATTGTAAGCTTAAACTC
CTGTGGATTACATCAAATACCAGTTCAAGTTTTGTCATTGTTCTAGTAAATTAGTTCCATTGTAAAGGGTTAC
TCTCATACTCCTTATGTACAGAAATCACATGAAAAATAAGGTTCCATAATGC

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FIGURE 5063

MLSVRVAAAVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEMSSILEERILGADTSVDLEETGRVL
SIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVFNDKLIKEGDIVKRTGAIVDVPVGEELLGRV
VDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQTGKTSIAIDT
IINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYF
RDNGKHALIIYDDLKQAVAYRQMSLLRRPPGREAYPGDVFYLSRLLERAAMNDAFGGSLTALPVIETQAG
DVSAYIPTNVISITDGQIFLETIFYKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAFAQFG
SDLDAATQQLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVVSQHQALLGT
IRADGKISEQSDAKLKEIVTNFLAGFEA

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FIGURE 5064

CCATGGACTTTATCAACGACGCCACCGACGTCAACGATGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCT
CGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTCAGATGGCAACTCGCAGGGCGCCACGCCCCTGCCATCG
AGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGAGATCTTCGTGGTGGTCGTGGGCCGCCAGGTGAATGAGC
CCCACATCCGCGTCTTGGTCACCGGCAAGACGGCCGAGTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTG
TCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCACCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCCA
CCCTGCACGCCGGCACCACCCCTGTCCTCCACCCCTCCCCACTCATCACTAAACAGAGTAAAATGTGATGCGA
ATTTTCCCGACCAACCTGATTCGCTAGATTTTTTCTCTTCTGTGTTTTTTTCTGAACCATATCCATGTTGCTGAC
TTTTCAAATAAAGGTTTTCACTCCTC

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FIGURE 5065

CTCAGCCCCAGCTCCAACAGAAGCAGCCCCGGCCACCCACTCCCCGTGACCGCCACGCCACATGGACACAGCCCT
CGCCCTCCGCCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGCCCTGCCCCACCTGCCCT
CCCCGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCCTTGGACAGAGGCCTGGGC
CCTCAGTGGACTGCCTGCTCCACAGCCTGGGCTGACGTCAGAGGCCGAGGCCAGGAAGTGAAGTGGGCCCCCTGG
TCCTGGGTCTCAGGATGGGTCTGGGGGCTCGTGTTTCATCAAGACACCCCTCTGCCCAGCTCACCACATCTTCA
TCACCAGCAAACGCCAGGACTTGGCTCCCCATCCTCAGAACTCACAAGCCATTGCTCCCCAGCTGGGGAACCTC
AACCTCCCCCCTGCCTCGGTTGGTGACAGAGGGGGTGGGACAGGGGCGGGGGGTCCCCCTGTACATACCCTGCC
ATACCAACCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAATTTTTTGTGTTTTGATTTTTTTAATAAGA
ATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGGAGCTGGATCCAGAGCTGGAGG
GGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCACTCTCCTTTTCATGTCCCTGTGCCCCCAGTTCTC
CTCCTCAGCCTTTTCTCCTCAGTTTTCTCTTAAACCTGGAAGTACTAAGTTTCCAAGGCCTGCCTTCCCCCTC
CCTCCCACTGGAGAAGCCGCCAGCCCTTTCTCCTCTGCCTGACCACTGGGTGTGGACGGTGTGGGGCAGCCCT
GAAAGGACAGGCTCCTGGCCTTGGCACTTGCTGCACCCACCATGAGGCATGGAGCAGGGCATAGCAAGGGCCCC
GGGACAGAGTTTTCCAGACCTGGCTCCTCGGCAGAGTGCCTCCCGTCAGGGCCCACATCATCTAGGCTCCCCA
GCCCCCACTGTGAAGGGGCTGGCCAGGGGCCCCGAGCTGCCCCCAACCCCGGCCTCAGCCACCAGCACCCCATAG
GGCCCCCAGACACCACACACATGCGCGTGCGCACACACAAACACACACACTGGACAGTAGATGGGCCGACA
CACACTTGGCCCAGTTCTCCATTTCCCTGGCXTGGCCCCCAACCCCAACCTGTCCACCCCGTGCCCCCTC
CTTACCCCGCAGGACGGGCCTACAGGGG

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FIGURE 5066

AGGTTGATACAAGAGGCTGTTTTCTAGCGTGGCTTGCTGCCCTTTGGTAAAGAACATGTCGTCCATCTTGCCATT
CACGCCGCCAGTTGTGAAGAGACTGCTGGGATGGAAGAAGTCAGCTGGTGGGTCTGGAGGAGCAGGCGGAGGAGA
GCAGAAATGGGCAGGAAGAAAAGTGGTGTGAGAAAGCAGTGAAAAGTCTGGTGAAGAAGCTAAAGAAAACAGGACG
ATTAGATGAGCTTGAGAAAGCCATCACCCTCAAACTGTAATACTAAATGTGTTACCATAACCAAGCACTTGCTC
TGAAATTTGGGGACTGAGTACACCAATACGATAGATCAGTGGGATACAACAGGCCTTTACAGCTTCTCTGAACA
AACCAGGTCTCTTGATGGTCTCTCCAGGTATCCCATCGAAAAGGATTGCCACATGTTATATATTGCCGATTATG
GCGCTGGCCTGATCTTCACAGTCATCATGAAGTCAAGGCAATTGAAAAGTGCGAATATGCTTTTAATCTTAAAA
GGATGAAGTATGTGTAAACCCCTTACCCTATCAGAGAGTTGAGACACCAGTTTTGCCTCCAGTATTAGTGCCCCG
ACACACCGAGATCCTAACAGAACTTCCGCCTCTGGATGACTATACTCACTCCATTCCAGAAAACACTAACTTCCC
AGCAGGAATTGAGCCACAGAGTAATTATATTCCAGAAACGCCACCTCCTGGATATATCAGTGAAGATGGAGAAAC
AAGTGACCAACAGTTGAATCAAAGTATGGACACAGGCTCTCCAGCAGAACTATCTCCTACTACTCTTTCCCCTGT
TAATCATAGCTTGGATTTACAGCCAGTTACTTACTCAGAACCTGCATTTTGGTGTTCGATAGCATATTATGAATT
AAATCAGAGGGTTGGAGAAACCTTCCATGCATCAGCCCTCACTCACTGTAGATGGCTTTACAGACCCATCAAA
TTCAGAGAGGTTCTGCTTAGGTTTACTCTCCAATGTTAACCAGAAATGCCACGGTAGAAATGACAAGAAGGCATAT
AGGAAGAGGAGTGCGCTTATACTACXATAGGTGGGGAAGTTTTTGCTGAGTGCCTAAGTGATAGTCAATCTTTG
TGCAGAGCCCCAATTGTAATCAGAGATATGGCTGGCACCCCTGCAACAGTGTGTAAAATTCCACCAGGCTGTAATC
TGAAGATCTTCAACAACCAGGAATTTGCTGCTCTTCTGGCTCAGTCTGTTAATCAGGGTTTTGAAGCCGTCTATC
AGCTAACTAGAATGTGCACCATAAGAATGAGTTTTGTGAAAGGGTGGGAGCAGAAATACCGAAGGCAGACGGTAA
CAAGTACTCCTTGCTGGATTGAACTTCATCTGAATGGACCTCTACAGTGGTTGGACAAAGTATTAATCAGATGG
GATCCCTTCAGTGCCTTGCTCAAGCATGTCATAAAGCTTCACCAATCAAGTCCCATGAAAAGACTTAATGTAAC
AACTCTTCTGTCATAGCATTGTGTGTGGTCCCTATGGACTGTTTACTATCCAAAAGTTCAAGAGAGAAAACAGCA
CTTGAGGTCTCATCAATTAAAGCACCTTGTGGAATCTGTTTCCTATATTTGAATATTAGATGGGAAAATTAGTGT
CTAGAAATACTCTCCATTAAAGAGGAAGAGAAGATTTTAAAGACTTAATGATGTCTTATTGGGCATAAACTGA
GTGTCCCAAAGGTTTATTATAACAGTAGTAGTTATGTGTACAGGTAATGTATCATGATCCAGTATCACAGTATT
GTGCTGTTTATATACATTTTGTAGTTGCATAGATGAGGTGTGTGTGTGCGCTGCTTCTTGATCTAGGCAAACCTT
TATAAAGTTGCAGTACCTAATCTGTTATTCCCACTTCTCTGTTATTTTTGTGTGTCTTTTTTAATATATAATATA
TATCAAGATTTTCAAATTATTTAGAAGCAGATTTTCTGTAGAAAACTAATTTTCTGCCTTTTACCAAAAATA
AACTCTTGGGG

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FIGURE 5067

TCCCTCTTCCCTAAGCAGCCTGAGGGTTGACTGGATTGGTGAGGCCCGTGTGGCTACTTCTGTGGAAGCAGTGCT
GTAGTTACTGGAAGATAAAAGGGAAAGCAAGCCCTTGGTGGGGGAAAGTATGGCTGCGATGATGGCATTCTTAG
GACACCTTTGGATTAATAATGAAAACAACACTCTCTGAGCAGCTGTTCGAATCATCTGATATTTATACTGAATG
AGTTACTGTAAGTACGTATTGACAGAATTACACTGTACTTTCCTCTAGGTGATCTGTGAAAATGGTTTCGCTATT
ACTTGACCCGGGAGAACCCACGAAATCATGCAAATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCG
TGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACGAAGTATCTGAAAGATGTCACCTTTACAGAA
ACAGTGTGTACCATTCGACGTTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAATGGGGCTGGACACA
AGGTCGGTGGCCCAAAAAGAGTGCTGAATTTTTGCTGCACATGCTTAAAAACGCAGAGAGTAATGCTGAACTTAA
GGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGGACCTA
CAGAGCTCATGGTCGGATTAAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACA
GATTGTTCTTAAACCAGAAGAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACT
TATGGCACGGGAGTAAATTTCAGCATTAAAATAAATGTAATTAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5068

MVRYSLDPENPTKSCSRGSNLRVHFKNTRETAQAIGMHIRKATKYLKDVTLQKQCVPFRRYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLHMLKNAESNAELKGLDVDSLVIIEHIQVNAKPMRRRTYRAHGRINPYMSSPCHIEMIL
TEKEQIVPKPEEEVAQKKKISQKKLKKQKLMARE

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FIGURE 5069

GCTGAGCATCGCCAGGGCGGGCGGCAGGGCGGGCCTCTCCGCCGGGTGTACCTCCTGTGCGGGCGCGAGACCTC
TGGTGAAAAGAAAAGATGTTGTCCCGGTTAAGAGTAGTTTCCACCACCTTGACTTTGGCATGTCGACATTTGCACA
TAAAAGAAAAGGCAAGCCACTTATGCTGAACCCAAGAACAACAAGGGAATGGCATTCTTACAAGAACGAC
AAATGCTTGGTCTTCAAGGACTTCTACCTCCCAAAATAGAGACACAAGATATTCAAGCCTTACGATTTCATAGAA
ACTTGAAGAAAATGACTAGCCCTTTGGAAAAATATATCTACATAATGGGAATACAAGAAAGAAATGAGAAATTGT
TTTATAGAATACTGCAAGATGACATTGAGAGTTTAAATGCCAATTGTATATACACCGACGGTTGGTCTTGCCTGCT
CCCAGTATGGACACATCTTTAGAAGACCTAAGGGATTATTTATTTTCGATCTCAGACAGAGGTCATGTTAGATCAA
TTGTGGATAACTGGCCAGAAAATCATGTTAAGGCTGTTGTAGTGAAGTATGAGAGAGAATTCTGGGTCTTGGAG
ATCTGGGTGTCTATGGAATGGGAATTCAGTAGGAAAACCTTTGTTTGTATACAGCTTGTGCAGGAATACGGCCTG
ATAGATGCCCTGCCAGTGTGTATTGATGTGGGAAGTGAATAATCGCACTCTTAAAGACCCATTTACATGGGCT
TGTACCAGAAAACGAGATCGCACACAACAGTATGATGACCTGATTGATGAGTTTATGAAAGCTATTACTGACAGAT
ATGGCCGGAACACACTCATTCAAGTTCGAAGACTTTGGAAATCATAATGCATTCAGGTTCTTGAGAAAGTACCGAG
AAAAATATTGTACTTTCAATGATGATATTCAAGGGACAGCTGCAGTAGCTCTAGCAGGTCTTCTGCAGCACAAA
AAGTTATTAGTAAACCAATCTCCGAACACAAAATCTTATTCCTTGGAGCAGGAGAGGCTGCTCTTGAATTGCAA
ATCTTATAGTTATGCTATGGTAGAAAATGGCCTGTGAGAACAAGAGGCACAAAAGAAAATCTGGATGTTTGACA
AGTATGGTTTATTAGTTAAGGGACGGAAGCAAAAATAGATAGTTATCAGGAACCAATTTACTCACTCAGCCCCAG
AGAGCATACCTGATACTTTTGAAGATGCAGTGAATATACTGAAGCCTTCACTATTATTGGAGTGCAGGTGCTG
GCCGTCTTTTCACTCCTGATGTAATCAGAGCCATGGCCTCTATCAATGAAAGGCCTGTAATATTGCATTAAGTA
ATCCTACAGCACAGGCAGAGTGCACGGCTGAAGAAGCATATACACTTACAGAGGGCAGGTGTTTGTGTTGCCAGTG
GCAGTCCATTTGGGCCAGTGAACTTACAGATGGGCGAGTCTTTACACCAGGTCAAGGAAACAATGTTTATATTT
TTCCAGGTGTGGCTTTAGCTGTTATTCTCTGTAACACCCGGCATATTAGTGACAGTGTTCCTAGAAAGCTGCAA
AGGCCCTGACAAGCCAATTGACAGATGAAGAGCTAGCCCAAGGGAGACTTTACCCACCGCTTGCTAATATTTCAGG
AAGTTTCTATTAAACATTGCTATTAAAGTTACAGAATACCTATATGCTAATAAAATGGCTTTCCGATACCCAGAAC
CTGAAGACAAGGCCAAATATGTTAAAGAAAGAACATGGCGGAGTGAATATGATTCCCTGCTGCCAGATGTGTATG
AATGGCCAGAATCTGCATCAAGCCCTCCTGTGATAACAGAAATAGAAAGCACTCCCCTGATAAAATCTTTCTGTGCT
CCAGGGAACCCCTTTTTTCAGACAAGAAGAGATAATGTCTTCAGTTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5070

MLSRLRVVSTTCTLACRHLHIKEKGKPLMLNPRNTKGMFTLQERQMLGLQGLLPKTIETQDIQALRFHRNLKKM
TSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTVGLACSQYGHIFRRPKGLFISISDRGHVRSIVDNW
PENHVKAVVVTDGERILGLDGLGVYGMGIPVGKLCLYTACAGIRPDRCLPVCIDVGTDNIALLKDPFYMGLYQKR
DRTQQYDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTAVALAGLLAAQKVISK
PISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKYGLLVKGRKAKIDSYQEPFTHSAPESIPD
TFEDAVNILKPSTIIGVAGAGRLFTPDVIRAMASINERPVIFALSNPTAQAECTAEEAYTLTEGRCLFASGSPFG
PVKLTDGRVFTPGQGNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQLTDEELAQGRLYPPLANIQEV SIN
IAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRSEYDSSLPDVYEWPESSASSPPVITE

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FIGURE 5071

GCTAGGGCGCGGCGGGCGGTTTTGAATTTTGCTTACAGAGTCCCCTCTCACCATCCTGGGCTTCCAACGGAGACTG
CGGTATCCGCAGCTGGAGACCCAGCGCGGAGTAGCCTTTTGCTCCCGGACGGACTTGAGGTTGGAGTCTGTGTGT
TGGGGACCCTGCCTTTGGAAGCGCCGAGAGGCTTAAAGGATGGCCTCGTCAGATCTGGAACAATTATGCTCTCA
TGTTAATGAAAAGATTGGCAATATTAAGAAAACCTTATCATTAAAGAACTGTGGCCAGGAACCTACCTTGAAAAC
TGATTAAATAAAATAGGAGATGAGATCATTGTAATAAATGAACTTCTAAATAAATTGGAATTGGAAATTCAGTA
TCAAGAACAACCAACAATTCACCTCAAGGAACCTCTGTGAATCTCTTGAAGAAGATTACAAAGACATAGAACATCT
TAAAGAAAACGTTTCCTTCCCATTTGCCCTCAAGTAACAGTAACCCAGAGCTGTGTTAAGGGATCAGATCTTGATCC
TGAAGAACCAATCAAGTTGAAGAACCTGAACCCGTAAGAAGCCTCCCAAAGAGCAAAGAAGTATTAAGGAAAT
GCCATTTATAACTTGTGATGAGTTCAATGGTGTTCCTTCGTACATGAAATCCCGCTTAACCTATAATCAAATTAA
TGATGTTATTAAAGAAATCAACAAGGCAGTAATTAGTAAATATAAAATCTACATCAGCCAAAAAGTCTATGAA
TTCTGTGACCAGAAATCTCTATCACAGATTTATTGATGAAGAAACGAAGGATACCAAAGGTCGTTATTTTATAGT
GGAAGCTGACATAAAGGAGTTCACAACCTTGAAAGCTGACAAGAAGTTTCACGTGTTACTGAATATTTTACGACA
CTGCCGGAGGCTATCAGAGGTCCGAGGGGGAGGACTTACTCGTTATGTTATAACCTGAGTCCCTTGTAACCTTTT
GAACATACCAACAGGGTATAGAGTATAGAGGCTATTTCTATAATTTTCTTATATATAATTTTTTAACTTTTAAAT
CTTTTTTGTTTCTTTTTTTTTTTTTTTTTGAGACAGGATCTTGCTTTGTCACCCAGGGGCTTGCTTTGTCACGCAGG
CTAGAGTGCAGTGGCGCAAACATGGCTCACTGCAGCCTCAACCTCCCAGGCTCAAGTGATCCTCCACCTCAGCC
CCCTGAATGGCTGGGACTACAAGCGTGCGCCACCATGCCTGGCTAATTTTTTGATTTTTTGGAGAGATGGGGTTT
CACCATGTTGCCTAGGCTGGTCTTGAGCTCCTGAGCTCAAACAATCCACCCTCCTCAGCCTCCCAAAGTGCTGGG
ATTACAGGCTTGAGCCACCACACCTGACCTATTCTTGTTCTTATAAAAATAAACTTTTTTGGATAAAGCTTAT
TTCTTGTTTTTTTTCTTTTTTTTTTTTTTTTTTGGAGACAGTCTCGCTCTTTCACCCAGGCCGACTGCAGCGG
CGCTATCTCGGCTCACTGCAAACTCTGCCTCCAGGTTACGCCATCCTCCTGCCTCAGCTACTCAGGAGAATTG
CTTGAACCTAGGAGGTGGAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGTCTGGGCAACAGAGCGAGA
CTCCATCTCAGAAAAAAGAAAAAAGACTGGGTACAGATGTGATATTGGAAGAAAAAGATCAAGCTGATGAGGT
TAGGATACCCAGGCCCTTTGGACTTAAAGATCACTAGTGTCTAAATTCCATCGATGGCATTTCAGTCTATAGGTA
AACTTCTGGAAGCTGGATTGGAGACAGTTATCATCTGATTATTGGGCTTTCGTATAGGTCTTAGGGAGCAG
CTTACCTGAAATGCATTTAGTGACACCAGTCTGTAACTTCAACCTGTAATGAAAGTGTAATAAATGTACATTG
AGTTGATGTGATAATGTGATATAATAAGAAATATATATTTGATCTTCCTATCTAGTTCCTTGTTTCAGAGCTCCTA
AAACCTTGTAATTTCCAAAGTGATGGAGTACATCTTTGTTCTAGTATTTGGTCTTTGACCCAGTTCTTGACA
CAAAGCTCTAAATTCCTTTAAATTTCCCAGTGATAGGAGAATTTTTGTTCTAATGAGGTCACTCTTGATGGG
ACCTGGATAACTCAGGATGGGGGCTGCTCACAAAGACCACATCATGATTGGAAGTTCAAACCTTTCAGTCTCCCA
CCTCCAGAGAGGGGAGAGGGGCTGGAGATTTGTGTCAATAATCCATCAGGCCTATGTCAACAAGACATAATCCGT
TAACTATGGAGTTCAGGGAGCTTCAGGGTTGGCAAACATTTTGATGTGCCAGGAAGGTGACGCACCTCCAGCTTTA
TGAAGTCAGCAAGTCTGTGCTCAGGATGCTTCTGGACCTTGCCCAGGTACCCCTTCATGTGGCTGTGTTCAT
CTGTATCCTTTGTAGTAGCCTTAAATAAACTGTAAACAC

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FIGURE 5072

CCGACATGTTGAGTCATAAGACGCGTCGGTGTTCAGTCTGTGTCCTTGAGGTGACCAGGGCCACTGCAGGCAT
GGTGCTAGCAGAGCTGTACGTCCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGAAACCATT
TAAAACAGGTCTAAAGGCTTTGATGACAGTAGGGAAGAACCATTTCCTACCATTACGTAGATTACAAAAAGA
AAATGAGAGGTGGAATGTTATTCTAAATCACAGTTGAAGAACATTAAAAAGATGTGGCATAGGGAACAAATGAA
GAGTGAATCCCGGAAAAGAAAAGAGGCAGAAGATAGTTTACGAAGAGAAAAGAACCTGGAAGAAGCAAAGAAGAT
TACCATTAAAAATGATCCAAGTCTCCAGAGCCAAAATGTGTGAAGATTGGTGCCTTAGAAGGATATAGAGGCCA
AAGAGTAAAGGTGTTTGGCTGGGTCCACAGGCTGCGCAGGCAAGGAAAAGAAATTTAATGTTTCTGGTGTTCGAGA
TGGTACAGGTTATCTTCAGTGTGCTTGGCGGATGAGTTGTGTGCTAGTGCTACAATGGAGTTCTCTTGTCACGGA
GAGCAGTGTTCAGTGTATGGAATGCTAAATCTTACCCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTGAG
TTGTGACTTCTGGGAACATAATTGGGTTGGCCCTGCTGGAGGAGCTGACAACCTGATCAATGAGGAGTCTGACGT
TGATGTCCAGCTCAACAACAGACACATGATGATCCGAGGAGAAAACATGTCCAAATCTTAAAGCACGATCCAT
GGTCACCAGGTGCTTTAGAGATCACTTCTTTGATAGGGGTACTATGAAGTTACTCCTCCAACATTAGTGCAAC
ACAAAGTAGAAGGTGGTGCCACACTCTTCAAGCTTGACTATTTTGGGGAAGAGGCATTTTGAATCAATCTCTCA
GTTGTAATTTGGAGACCTGCCTCCAGCCCTGGGAGATGTTTTTGTATTGCTCAGTCATACCGGGCAGAGCAGTC
CAGAACACGAAGGCACCTGGCTGAGTACACTCAGTGAAGCTGAGTGTCTTCTGACTTTTGACGACCTCTT
GAACCGGTTGGAGGACTTGGTTTGTGATGTGGTAGATCGAATATTGAAGTCACCTGCAGGGAGCATAGTGATGA
GCTCAACCCGAACCTTTCAGCCCCCAACCGCCTTTCAAACGGATGAATATTAGATGCTATCGTTTGGCTAAA
AGAACATGATGTAAAGAAAAGATGGAACCTTCTATGAATTTGGAGAAGATATCCAGAAGCTCCTGAGAGACT
GATGACAGACACCATTAAATGAACCAATCTTGCTGTGTCGATTTCTGTGGAGATCAAGTCTTCTACATGCAGCG
ATGTCTGAGGATTCCCGTCTTACTGAATCTGTGACGTTGTGATGCCCAATGTTGGTGAGATTGTGGGAGGCTC
AATGCGTATCTTTGATAGTGAAGAAATACTGGCAGGTTATAAAGGGAAGGGATTGACCCACTCCCTATTACTG
GTATACGGATCAGAGAAAATACGGTACATGTCCCATGGAGGATATGGCTTGGGCTTGGAACGATTCTTAACGTG
GATTCTGAATAGGTATCACATCCGAGACGTGTGCTTATACCCTCGATTTGTCCAGCGTTGCACGCCATTAACCAT
TTCTCCAGAAGCGTGGAGGAAAGATTATGAAAGGAACAGGCTCTTTAAAAAAGAAAACAAAAGCCAGAATCTTC
CTTTTTTTTGTTCATTGGGGTTTCTCTTCTGTTTTTCTTCTACTACCATAAAAACTATCTCAAATCACCTGA
ACATCAAGTGATATTAAAGTTGTATCTTAAGAAAAAATATCCATTTTTTTCTTAAGTTTCGGGAAACAAAGTTCCG
GGGAAAATACCTGGCATGAACTGTAGTTAGGGATACATTTAGCATTCTTACTCACTTTATCCAAGTTATTCTTCT
TTATTCAAGTTATATGTATGTATAATTCAACAATTTTAGATTATGGTGTAAGATACTCCAGTAACCTATCTTTCT
GTCTTTTTAAGTGACCTGGAATCTTTGATTTATTTTATTGCATCAATGAATAAAAACAAAATCTTGGGGGAA
GAAATTGGCAATATCGTATAAAAAATCTGCTCATATTAGAACACAGTATAATTAGCAGTAACACTAGAAATCAAA
TGAATAGCCTTTTGTATCAGTTATTAATCTTTCTAACTCTGCTTAGCTGCTAATAATCTTGAGGCATAGAAAT
GAAGAATTTGAAAAATAGAATTGCCTTAAAGGATTTGAAGTAAGAACATAATTTGGGGAGAGTTTTTTAGTGA
TTCACAGTATCCCTCTTAGCATTAATTTAAGGTAAAGAGGCAGATTGATTTCCCTCTTTCTGGTAATTCCTAA
GTAATTAAGAATAAATAAGTTCCAAAAGAAATGTAGCTGGAATCTTAATAACAATTTGTAGTGGCTGTTTGTAGT
TGCCCCCACCATGTCCTTAGATCTAATCTGTGCTACCTTATTAATCTCACAGCAGGCTTACTGAATGGCTTCATT
CAGATTTAGTTGATTTCTCCACCAATGCATGTATCTCAATAGGCTGATTCCAGCAGTCAATAAATG
AACACCCGTA AAAA

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FIGURE 5073

MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKENERWNVISKSQKNIKKMWHREQM
KSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGALEGYRGQRVKVFGWVHRLRRQGKNLMFLVLR
DGTGYLQCVLADELCCYNGVLLSTESSVAVYGMLNLTPKGKQAPGGHELSCDFWELIGLAPAGGADNLINEESD
VDVQLNNRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYEVTPTLVQTQVEGGATLFLKLDYFGEEAFLTQSS
QLYLETCLPALGDVFCIAQSYRAEQSRRRLAEYTHVEAECPFLLTFDDLLNRLEDLVCDVVDRIKSPAGSIVH
ELNPNFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIPAPERLMTDTINEPILLCRFPVEIKSFYMQ
RCPEDSRLTESVDVLMFNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYWYTDQRKYGTCPHGGYGLGLERFLT
WILNRYHIRDVCLYPRFVQRCTP

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FIGURE 5074

CGGCCAGCGACGCGGTTACCTCCTGCTGCTCCTCGCCCTCGCCCCGCGAGCTGCCCCGACGCGAGATGTCTTA
TTTACCAACAAATCCACCAGGGAGCATTCTTATTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGGAGTGCCGG
AGGGGGAAGCGGATTACGGAAGACTATTACCCAGAAGAAAAGATGTTGTTTTTTCACAAGCCAAAGATGTACC
GAAGTATAGAGGGCTACTGTATTGTCAGAGCTAAGTCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAA
AGGACTTCCAGAGCTGTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCTGCTGTGTGAA
AAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGT
CTAAAGACTACATTGAAACCAAAGAAAGTGAAGTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAA
CTGCAGAAGGAATTTAAACGTCATAATTCTGATGCTCACAATACCCTCAAGTGCCTCCCCAGCTCCATCTCCT
CGTTACAGTAACCACTCAGATGACGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTTCC
TTTTTAGATCTCACATACTGGAAGACAGAAGATATGTTGTGGGATCAACTATAAAGGCCGTTTTGGGGAAGTC
CTCATTGACACACATCCCTTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCCGAGAAGCCAGAGGAGCAGGGG
CCAGAGCCTCTGCCATCTCCACTCAGGAGTGGTGACTGAGGTTTTTATGTAGAAGGGGAACAAAAAAATCTGA
ATTTTGAAGACCAACAAAGCAGCAAACTGACCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTTT
TGCTCTTGTACCCAGGCAGGAGTGCACTGGCGTGATCTGGCTCACTGCAACTTCCGTCTCCCGGGTTCAAGTG
ATTCTCCTGCCTTAGCCTCCCAAGTAGCTGGGTTTATATGTGCCCGCCACCAGACCCGGCTAATATTTTAGTTTT
AGTAGAGACGGGGTTTACCACATTGGCCAGGCTGGTCTCAAATGACCTCTTATTTTTAACTTGATACCTGCT
ATTCTGCCAAAAGACAATTCTACAGTAGTTTTGAATGGGTTGATATCCCTAGTCCCACAACTCTGAAGCCAG
TGTCAGCTTACTAAAAAAGAGTGGTACATAATTTAAGATGCTGAGTATTCATAGGAAAGATGAATGCTGC
TGTAAGTACTCTTTAAGTCTTTTTTTTTTTTAAATCCCTTCTAATGAATGAACTAGGGGAATTCAGGGGACA
GAGATGGGATTTGTTGTATGATAAACTGTATGTAGTTTTTAGTCTTTCTGTATTGAGATGCAGTGGTTGGGGCAT
TTTTAAGATGGCTGGCTACTTGTTCCTCATGATAATAAATTTGTCATAACTCAGTAACATGAACCTGCCCT
AGAGGTAGTTGTTAATGATTTTGAATATTAAGGTCTTGCCAAGCTTGTGATGATTCAAACCTGTACTACTGATT
ATTAAGCAGGACAGACTGAGCTTTCTGTGCAATACCTTGAGGAGAAAGTAACCTCTAAATATACAGAGAGGT
AACTTGACTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATTTGATAAAGATTTTAAATTTTGTAAAC
TTCTAAAGCAGAATCAAAGCTCCTCTTGGGGAAATGGCAAGTCTTAGGACAGGCGAGACCCTGTATGAATAGTA
CCAAAGCATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAATGTACAAGT
CCTCAGGATGGCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAATA
TAATCGACTTTTGTGTTGTTCTGTGACTTCATTGAAAATCTTTACAATTCAGTTTCAGCTCTGGATTACTTCAG
TTGACCTTTGTGAAGGTTTTTATCTGTGTAGAATGGGTGTTGACTTGTTTTAGCCTATTAAGTTTTATTTTCT
TTCACTCTGTATTAAGTAAACTTACTAAAAGAAAAGAGGTTTGTGTTACATTAAATGGTTTTGGTTTTGGCT
TCTTTTAGTCAGGCTTTCTGAACATTGAGATATCCTGAACCTAGAGCTCTTCAATCCTAAGATTTTCATGAAAAG
CCTCTCACTTGAACCTAAACCAGAGTACTCTTACTGCCTCTTTCTAAATGTTCAAGAAAAGCATCGCCAGTTCCG
GTCTTTTCAGAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTCATTTTTTAACTGCAT
TTTAAAAATTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTCTT
AATCTAAACATTTTATATTTCTTCTTTTGGAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATACA
GCGAGTTGAGTTGGCTTCTCCACAGTCTTTGAGGCGAATTACAAAAGTCCAGCCATTATCATCTCCTGAGTTA
TTTTGAAATGATTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTAC
TTCTGTATTTATTTATTTACTAGACCTCAACCACAGTCTTCTTTTTCCCTTCCACCTCTCTTTGCCTGTAG
GATGTACTGTATGTAGTCATGCATTTGTATTAATATATTAGAAATCTACAGATCTGTTTTGTACTTTTTATACT
GTTGGATACTTATAATCAAACTTTTACTAGGATATTGAATAAATCTAGTCTTATTAGAAAATAAAAAAAGAA
AGAAA

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FIGURE 5075

GCTGTCCTCGCCCTCGCCCCGGCGAGCTGCCCCGACGCGAGATGTCTTATTTACCAACAAATCCACCAGGGAGC
ATTCTTATTTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGAGTGCCGGAGGGGGAAGCGGATTTACGGAAGA
CTATTACCCAGAAGAAAAGATGTTTGTTCACAAGCCAAAGATGTACCGAAGTATAGAGGGCTACTGTATTTG
CAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGGACTTCCAGAGCTGTTTGGATTG
CATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCTGTGTGAAAAGATGGAAGAAGTTGCCAGCAGGA
TCAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGTCTAAAGACTACATTGAAACCAAAGA
AAGTGAAAACCTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAACTGCAGAAGGAATTTAAACGTCATA
ATTCTGATGCTCACAATACCACCTCAAGTGCCTCCCCAGCTCCATCTCCTCGTTACAGTAACCAGTCAGATGACG
GCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTCCTTTTATAGATCTCACATACTGGCCTC
ATTGACACACATCCCTTCAAGCCTTGCTGCAGCAAT

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FIGURE 5076

ACTTCTGCCCTTTTGGCTCTCTGACCAGCACCATGGTGGTGGGCAAGAACAAGCACCTTACGAAAGGCGGCAAAA
AGGGAGCCAAGAAGAAAGTGGTTGATCCATTTTCTAAGAAAGATTGGTTTGACGCGAAAGCACCTACTACGTTCA
ATATAAGAAATATTGGAAAGACGCTCATCACCAGGACCCAGGGAACCAAAATTGCATCTGATGGTCTCAAGGGTC
GTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTAGAAAATTCAGCTGATTACTGAAGA
TGTTCAAGGGCAAAAACCTGCCTAACTTCCATGGCATGGATCTTACCCATGACAAAATGTGTTCCATGGTCAAAAAA
TGGCAGACAATGATTGAAGCTCATGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTTTCTGTGTTGGT
TTTACTAAAAAACGCAGCAATCAGATACGGAAGACCTCTTATGCTCAGCAACAACAGGTCCGCCAAATCCGGAAG
AAGATGATGGAATCATGACTCGAGAGGTGCAGACAATGACGTGAAAGAAGTGGTCAATAAATTGATTCCAGAC
AGCATTGGAAGACATAGAAAAGACTTGCCAATCTATTATCCTCTCTATGATGTCTTCGTTAGAAAAGTAAAA
ATGTTGAAGAAGCCCAAGTTTGAAGTGGGAAAGCTCATTGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCT
GCTGGGGACGAGACAGGTGCTAAAGTTGAATGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGT
TCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGT

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FIGURE 5077

MDLTHDKMCSMVKKWQTMIEAHVDVKTDDGYLLRLFCVGF TKKRSNQIRKTSYAQQQQVRQIRKKMMEIMTREVQ
TNDVKEVVNKLIPDSIGKDIEKTCQSIYPLYDV FVRKVKMLKKPKFELGKLMELHGEGSSSGKAAGDETGAKE

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FIGURE 5078

ATGAAAGAGGCCATCGGATGCGAGGACATCAGCCCAGTAACTTTGAGGGAAGAAGGTTTTCTTCCCCTGCTGCC
TATGCCGTGGGGTTTGAGCACGTCTCTCGGGGGGAAGTCATGGCCCATAGCCAGCTTGCTGCAATGGAAGCGATG
CTTACAGTAAGGCGAGTTCCCTGGACACGATATATGAGAGTGAGGACACAGTGCCAGAGTTGGGAGTTGACCGA
ACCTACCTTCAGATGGGATTTCTGCTTGAAAACCAGGAAGCAGAACTCAGATGTGAATTACGCTTTCTAGACATT
CAACTGCTATCAAAGAATAATTGCCATGCTAAATTATTTATATTTGTGGAGCAAATGACTTTAGGCACTAAGGCT
TTTATCTCTTCCCCTGAGGAACCTTTTGAACCTTTGTTTTCTTGAACCTCTATGCCATCCAGGCAGGGGGATTAGAA
GAACCTCCTAATCTGAGTAATTTGAATAAACTGAGGGAAATTGTGGAAAAGAAAGATTACAAGGTGATGAAAAAG
AGAGTAGATAATGAAGAGGGTGTA AAAACTTATAAGGTACTGGAAAGGGCAGCCATGAAATTCCTGACCATGGAA
CCCAAACTGAGAGATGACAGACTTGAAGGATATGGAGAAAAAGATTCAAGTCTTGCGGAGAAGGTCATGTTCA
GAAGCAAGTAAGGTAGTGAGAGCGTACTTACAACCTTATCGTGTGGAAGCTGCTCAGTGATGAGACTGGGAAAGAT
GAATATGCGTACGCTCTTTCACCTCACAGCAAAATCACTAAGCTTCTCTGAGGGTATAGGATACTTTCTTTTCTAT
GGGTCAGTGATGGTCATTACTGGAAGTTCCCATCACTTCCCGGTCCATCTTCCTGTGCTGGAGAACAACCTAAA
CACGAGGGTTGGGGAACTTGA

5509/6881
FIGURE 5079

MKEAIGCEDISPVTLREEGFPSPAAYAVGFEHVSERGEVMAHSQLAAMEAMLTVRRVPWTRYMRVRTQCPELGVDR
TYLQMGFLLLENQEAELRCELRFLDIQLLSKNNCHAKLFIFVEQMTLGTKAFISSPEEPFELCFLELYAIQAGGLE
EPPNLSNLNKLREIVEKKDYKVMKKRVDNEEGVKTYKVLERAAMKFLTMEPKLRDDRLEGEYGEKDSSSWRRRSCS
EASKVVRAYLQLIVWKLLSDETGKDEYAYALSLTAKSLSFSEGIGYFLFYGSVMVITGSSHHFPVHLPVLENKPK
HEGWGN

5510/6881
FIGURE 5080

ATGGTCTATGGAATTAAAAAATATGGTCCCTTTGTTGCAGACTTTGCTGATAAACTCAATGAGCAAAACCTTGCC
CAACTAGAAGAGGCGAAGCAGGCTTCCATCCAACAAATCCAGAATGCAATTGATATGGAGAAGTCACAACAGGCA
CTGGTTCAGAAGCGCCATTACCTTTTTGATGTGCAAAGGAATAACATTGCTATGGCTTTGGAAGTTACTFACCGG
GAACGACTGTATAGAGTATATAAGGAAGTAAAGAATCGCCTGGACTATCATATATCTGTGCAGAACATGATGTGT
TGA

5511/6881
FIGURE 5081

MVYGIKKYGPFVADFADKLNEQNLAQLEEAKQASTIQQIQNAIDMEKSQQALVQKRHYLFDVQRNNIAMALEVTYR
ERLYRVYKEVKNRLDYHISVQNMMC

5512/6881
FIGURE 5082

ACGTGGTACGGAAACCGGCGCCGCGCTTGCTGCTGGTAACAGGGCCTTGCCTAGTGGGCCTTCCTTCCCAGGTGCG
CCCTCAGTCTCCACTAGAGACAGGACTGACCAGTTGCTCTTCCTTCCAAGAACCTTCGAGATCTGCGGTCTGGGG
TCTGGTTGAAAGATGGCGGCCCTCACTACCCTGTTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAAA
CTCGCAAAATGGGTGGCTATCCAGAGTGTGTCTGCGTGGCCGGAGAAGAGAGGGCGAAATCAGGAGGATGATGGAA
GTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACGGTGGATATCGGAAAACAAAGCTCCCTGAT
GGCTCGGAGATCCCGCTCCCTCCTATTCTGCTCGGCAGGCTGGGCTCCGACCCACAGAAGAAGACCGTGTGCATT
TACGGGCACCTGGAATGTGCAGCCTGCAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTACCCTGGTGGAGCGA
GACGGCAAGCTGTATGGGAGAGGTTGACTGATGATAAGGGCCCGGTGGCCGGCTGGATAAACGCCCTGGAAGCG
TATCAGAAAACAGGCCAGGAGATTCTGTCAACGTCCGATTCTGCCTCGAAGGCATGGAGGAGTCAGGCTCTGAG
GGCCTAGACGAGCTGATTTTTGCCCCGAAAGACACATTCTTTAAGGATGTGGACTATGTCTGCATTTCTGACAAT
TACTGGCTGGGAAAGAAGAAGCCCTGCATCACCTACGGCCTCAGGGGCATTGCTACTTTTTTCATCGAGGTGGAG
TGCAGCAACAAAGACCTCCATTCTGGGGTGTACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTTTTGCTG
ATGGGCTCTTTGGTGGACAAGAGGGGGAACATCTGATCCCCGGCATTACGAGGCCGTGGCCGCGTACACGGAA
GAGGAGCACAAGCTGTACGACGACATCGACTTTGACATAGAGGAGTTTGCCAAGGATGTGGGGGCGCAGATCCTC
CTGCACAGCCACAAGAAAGACATCTCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATGGCATCGAAGGC
GCCTTCTCTGGGTCTGGGGCCAAGACCGTGATTCCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTCGTGCCG
AACATGACTCCTGAAGTCGTGCGCGAGCAGGTACAAGTACCTAACTAAGAAGTTTGCTGAACTACGCAGCCCC
AATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCTGGGTCTCCGACTTCAGTCACCCCTCATTACCTGGCT
GGGAGAAGAGCCATGAAGACAGTTTTTGGTGTGAGCCAGACTTGACCAGGGAAGGCGGCAGTATCCCGTGACC
TTGACCTTTCAGGAGGCCACGGGCAAGAACGTGATGCTGCTGCCTGTGGGGTCAGCGGATGACGGAGCCCACTCC
CAGAATGAAAAGCTCAACAGGTATACTACATAGAGGGAACCAAGATGCTGGCCGCGTACCTGTATGAGGTCTCC
CAGCTGAAGGACTAGGCCAAGCCCTCTGTGTGCCATCTCCAATGAGAAGGAATCCTGCCCTCACCTCACCCTTTT
CCAACCTGCCCAGGGAAGTGGAGGTTCCCTCTTTCCCTTTCCCTCTTGTGTCAGGTCATCCATGACTTTAGAGAACAG
ACACAAGTGTATCCAGCTGTCCACGGGTGGAGCTACCCGTGGGCTTATGAGTGACCTGGAGTGACAGCTGAGTC
ACCCTGGGTAAGTTCTCAGAGTGGTCAGGATGGCTTGACCTGCAGAAGATACCCAAGGTCCAAAAGCACAAGGTC
TGCGGAAAGTTCTGGTTGTGCGCCGGGCACCACGGCTCACACCTATAATCGAGCACTTTGGGAGGCCAAGACAGG
AGGATCACTTGAGGCCAGGAGTCTGAGACAAGCCTAGGCAACAAAACAAGACTCTGTCTCTACAAAAAGTTTAAAG
AAATGAGCCAGACATGGTGGTGTATGCCTGTAGTCCCAGCCACTCAGAAGGCTGAGGCAGGAGGATCGCTTGAGA
CCAAGAGTTTGAGCCTGCGGTGAGCTGTGAATGCACCACGGCACTCAAGCCTGGGCAATGTAGCAAGATCCTGTC
TCTACAAGAAATTTTTTAAAAATGAGCCAAGTGTGGTGGTGCATGCCTGTAGTTCCAGCTACTCAGGACACTGAC
GTAGGAGGGTTGCTTGAGACTGAGAGTTGGAGGCTGCGATGAGCCATGAATGCCCCACTGCACTCCAGCCTGGGC
GACAGAACGAGACCCCATCTCAAAAAAATAAGTTCTGGTTGTCATTGAATTGGGATAAACAGAGAGCTTGATGC
TTTCTGCCTTCTGTCTCAGGTGATGCATTGCACATTTGGGATATTTGGAAGGAAATGAGGAAAGAAATTAGGGC
CTCCTCTGATCTCTCGCTATCTGCGGGTCCGTGCTTTTTCTCAAGACCTTCACCATTACTGGCATTTCCTGTCT
TCTCTTTAGTATGATCCCTCAAAACCTCACTAACTGGAAGGATGATTTTGTCTCAGTTGTACTCCTAAATAAAA
AGTAAACATGACACCTCT

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FIGURE 5083A

AATCTGAGAGAGGCCGAGTGGAGTTTCGGTCCTTCTCTGAACACTTTTAGCTGAGAGTACCAGCATCCAACCTGGGA
GCGTTGTGTCATTGCATTTCCACATTCCCAGGAAAGCCAGGTGCTGGCTGCCAGCTGCTGCGCCCCCATGTAGAA
GGTGCACCTCCTGGGAGCAGGCACGTCTTTGGCTCTTCTGACCATGGAGAGATAGGACGGTCCCTGCAGCCCCG
GCGACAGAAAGCTGTGCCGCCACCACGGGCGCGCCGTCCTTCGGATGGATCGCAACAGAGAGGCCGAGATGGA
GCTGAGGCGAGGCCCCAGCCCCACCAGGGCCGCGGGGCCACGAGGTGGATGGGGACAAGGCTACCTGCCACAC
CTGCTGCATCTGCGGCAAGAGCTTCCCCCTCCAGAGCTCGCTTTCGACGACATGCGCAAGCACACGGGCGAGAA
GCCCTACAAGTGTCCCTACTGCGACCACCGGGCTTCCCAGAAGGGCAACCTGAAGATTACATCCGGAGCCACCG
CACGGGGACTCTGATTACAGGGACACGAGCCGAGGCGGGCGAGGCGCCGCTGGGTGAGATGCGCGCCTCCGAGGG
CCTGGACGCCTGCGCCAGCCCCACCAAGAGCGCCTCGGCCCTGCAACCGGCTGCTGAACGGGGCTCGCAGGCCGA
CGGCGCCAGGGTCTGAAACGGGGCTCGCAGGCCGACAGCGGCAGAGTCTGCTGCGGAGCAGCAAGAAGGGGGC
AGAGGGGTCCGCATGCGCCCCGGGGAGGCCAAGGCAGCGGTCCAGTGCTCCTTCTGCAAGAGCCAGTTCGAGCG
TAAGAAGGACCTGGAGCTGCACGTGCACCAGGCGCACAAGCCGTTCAAGTGCAGGCTGTGCAGCTACGCGACGCT
GCGGGAGGAGTCTGCTGCTGAGCCACATCGAGAGGGACCACATCACCGCGCAGGGGCCCGCAGCGGCGAGGCTG
CGTGGAGAACGGCAAGCCCCGAGCTGAGCCCCGGGGAGTTCCCGTGCGAGGTGTGTGGCCAGGCCTTCAGCCAGAC
CTGTTTCTGAAGGCGCACATGAAGAAGCACCGGGGCTCCTTCGACCACGGCTGCCACATCTGCGGCCGTAGGTT
CAAGGAGCCCTGGTTTCTCAAGAACCACATGAAGGCGCACGGCCCCAAGACGGGCAGCAAGAAGAGGCCCAAGAG
TGAGCTGGACCCCATCGCCACCATCAACAACGTGGTCCAGGAGGAGGTGATCGTCGCCGGCCTGAGCCTCTACGA
GGTCTGCGCAAGTGGGGAACTGTTTACAAACCTGGACAGCTTGAACGCCACAATGCCATCCACCGCAGAGT
CGAGGCCAGCGCACGCGCGCCCCGGCCGAGGAGGGGGCGAGGGGCCCTCGGACACCAAGCAGTCTTCTCTCCA
GTGCTGAACCTGAGGCCGTGCGGCGCGCGGCGACTCGTGCCCTGGCACGCGAGGCCGACGGCGGGTGGCTGAGCT
GGACCCGGTCAACAGCTACCAGGCCTGGCAGCTGGCCACGCGGGGTAAAGTGCCGAGCCGGCCGAGTACCTCAA
GTACGGGGCCTGGGACGAGGCGCTGGCCGGGGACGTGGCCTTCGACAAGGACAGGCGCGAGTACGTCTGGTGAG
CCAGGAGAAGCGCAAGCGTGAGCAGGATGCACCAGCCGCGCAGGGGCCCGCGGAAGCGCGGAGCGGGCCTGG
GGACCCCGCGCCCGCGGCCACCTCGATCCCCGCTCGGCCGCGCGCCCCAACCGCAGGGCCGCGAGCCACCACCGG
CCAGGGCAAGTCTCTCGAGTCTTCGAGTGGCGCAAGATCTTCCGCACCTATCATCAGATGGTGTGCACTCACG
CGTGCATCGCCGCGCGCGCCGAGAGGGACAGTGACGGGGACAGGGCGGCGCGGGCCCGCTGCGGATCACTCAG
TGAGGGTGACTCGGCCTCCCAGCCAGCAGCCTGGCTCCGCCTGTGCCGCTGTGACTCCCCGGGCTCTGGCCT
GGCCGACGAGGCTGCCGAAGACAGTGGTGAGGAGGGCGCCCTGAACCTGCACCAGGGGGACAGCCGCGCCGCTG
CTGCTTTTCCGAAGAGGTGACTTCGACCGAGCTCTCCAGTGAGACCAGAGTACAAGATGGGAGATAACGCCTC
GGAAAGAGACACCGGCGAGTCCAAGGCAGGGATCGCAGCTTCTGTGTCCATACTGAAAACAGTAGCAGAGAGAC
TTCTAGAAGGCAAGAGCAGCACAGATTTTCTATGGACTTAAAGATGCCAGCATTTCACCCCAAGCAGGAGGTGCC
CGTCCCTGGTGATGGTGTGGAGTTCCCTTXCCAGTACGGGAGCGGAGGGCCAGACGGGTACCCCTGCAGAAAAGC
TGTCCGATTTGCACAACAAGGAACACTCTGGGGGAGGGAAGCGGGCGCTGGCCCCAGACCTCATGCCCTAGATT
TAAGTGCAGGTCGACGCGGGATGACCCAGCAATAAGGAGACGGCCTCCTCCCTGCAGGCGGCTTAGTCTGTTT
ACCCGTGTCTTACTGCAGCCACAAGACCTACTACCCCGAGGTCTGTGGATGCACAAACGCATCTGGCACCGCG
TCAGCTGCAACTCCGTGGCTCCCCGTGGATTAGCCCAATGGTTACAAAAGCATCAGAAGCAATTTXGGTTTTT
CTTTCCCGGAGCGGACGCACGGGCCCCCGCCTGCCCTCGGTGGCAAAGAATGCCAGCCTTTGCTCCTTGCTCXG
GTTACCCGCACTCAGGTGCCAGGGGGGATGCCGGGGTCCAAAAGTGGCTCTTCTCCCCCTGGGAGTGGTCAAAA
AGCCGCTAGCATGCCTAAGAATAAGGAGAGCCATTCCGGAGGTCCCTGCGCTCTGTGGGCGCCCGGCCCTGACGG
GTATCGACAGACCAACCTTGTACGGCCAGGAGCCACATGGCGCGGCCACACAGGGGGCCCTGGCCAAGCCCAG
GCAGGAGGCTAGCTCCAAACCGTGCCTGCCCCGCGXGTGGCGGGGGCTTCAGCAGGAGCGCCACCCCTACGCCCA
CCGTATCGCCCGGGCTGGCGCGCAGCCCTCGGCCAATAGCAAGCCTGTGGAGAAGTTTGGGGTCCCCCAGCGG
GGGCTGGCTTTGCCCCACAAATAAGCACAGTCCCCCGACTCCCTGAAAGCCAAATTCAGTGCTCAGCCTCAGG
GTCCACCTCTGCAAAGGGCGAAGGGGGCGCTCCTCCTTACCTCCCCGCGAGCCCCCTCGAAGGCAGCCCAGG
AGCTGAGGACTCTGGCCACCTGTGCTGCGGGGTCCAGGGGCGACGCGGCCTTGCAGGCCAGCCCGCGCTGGCTG
GGGCGCCCCCGCTCTACACTCATCAACAGGXAGCCGGTGGCCGAGGGGCATGAGAAGCGCCTGGACATCCT
CAACAXTCTTTAAGACGTACATTXCAAAGGACTTTGCGACCCCTTACCAGGATGGGGTGTGAGCGGCCCTGGG
TTGGAGCACAGAGGGACACTCCGACGCGAGGCCCGGCCAGGAGAGTTCGTCTGCATCGAGTGGGAAAGAGCTTC

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FIGURE 5083B

CACCAGCCCGGCCACCTCAGGGCCACATGCGGGCACACTCAGTGGTGTGTTGAGTCCGATGGGCCTCGGGGTTCT
GAAGTTCATACCACCTCCGCAGACGCCCCAAACAAGGGAGAGACCATTCTAACACAGGTACCGTCCAGACAGTG
CCTCTGAGAAAGGGAACCTAAAGGCGTGTTCGACGCACCCAGGTCCCGTAACGGCCATTAGCAGTACCCCTC
ACGATGTCCCAGCAGCCTCCACCTGTGACCTGGCCGCTCCATGGAAGAACAGCCGGGGAACCTCTGAGCAGACA
CCTCACATCCCGAGCCGCTGCGCTGGAGTGGAAGTGAAGGCAGATGCCTCTCCTTGTTAAACGTTTCAAGATAA
ATGAAGATGCTATATTCTAGAAATACATGTAGATACTATATACGCATTTACGTGCTCATCGTCCATAGTCCATA
TTTTCTTATAATAAACAGTAGTACTGGCAGGCACAGTAGGGGCACAAGGCATCTGTCTTATTCAAGACAAGTTTG
AGACACTGGAAAAAAGATACTTGTTGTGTGTGTTGGACAGAGTGCGAGGCTGAGCACTGTACAGGGGCCTCC
CAITGTTAAGAGGGACTGTGGGGATGATGTCAGAACAAAGACGTGGTGGATTGAGGTTGATCGAGTATTAATACTA
CTGCCCTCTCCTTGCTTAGTGGGTATTTAAATAGTAAATAAGAGAGAGGAAGGAGGTGACGTTACAGGTGCTGTG
GGAAGCAGGCTTGGCGGAGGGGTATGATGATGAGACCCTCATTGTTCACTGGCTCCATCGCACTCCTCCCTGGGG
CCGTGTGCCTGTTCCATTCTTCCACCATTGAACTGAGCGAATCTGGCAAAGGAGACACGTCTGTGGGAATGCG
TAGATTCCGCCTCGGAAGAGAGCTAGCGCAACACTAAGAAAAGCAGGCTTCTGTTTATTCTCAGGACCTTTTTG
TAACAGGGCTACATTCTGCAAAGTCTTACAAAGGAAGACTATACGTCTTAACAAATTATTTAGCCACTGAGTCC
TCCCGATTTCGGACCTGTTTTAGTAATGGCAGAAGAATCCCTGAGCAGGTTACAGGTGCCCTAGATGACTAGGGTGC
TGAGCTCTGGCGCCTTCTGTCCCACTCTTGCCTCCCGCCCTTCCCTGAGCCACCCAGCAAGTGGGTGTCT
TTTCTCCTGGGCCTGGTGACCTCCACAGGATGAGTGACTTTGTTCATAAAGGGTGGGGATCACCAGCCCCCTTG
GTGGGGGACGGCTTCATATACCTCTTCCCTCAGTAATGCAATGCGAGTTTTTGTGGTGGGGGTAAAGGCCATAA
CAAAGGATCTTAAACCATGCAGTGTACGCAATTGAAATGGTATCCACAGATATAAATATTTCTTTTCCATTG
CCGTGACACTATGTGTGATGGTAATATTTCTGAGAGTTTCAAGTTTTGACATATGATTTTATGCATTATCAAA
AGTTACTGCTGCCTTGAATGAAAATGTTCTGTGAAATTTTTGCAAAGCTTACTAGGTTTTTTTTTAATTGTG
AAATTTTGTAAAGGCAGGAAATGGATTAAACGAGCATGCTAAATATATTTTCAAAAAGCAATAATTTTACAT
GTACAGAAATTATCCTAACCTTTAATACGCGAGAGCAACAGTTTACTTAATACGGTAATGGACTAGTGCAGTT
TTTGTAGACAGTGGGCTTCTGATACAAAGTCTGTTTAAACACAGACACACACACACAAACACACACACACAC
CCTAAAGTGTGGGTTTCTGTTCTAATGATTTGTTGAATATTATTATATTATTATTATTATTATTATTATTG
TTATTGTTATTAGTAATGTTTGGTCTGGATTCTACTTGTTACTGAGTTTAAATTACTTGACGGTTCAGGTTACT
TTGCAACACTTTCAAACGATGCAATGTAAGTGGCTAGCTTATATATATATATATATATATATATATATATTT
TTTTTTTTTTTACTTATTTTTTCTGATATTCTTACACCAGATATGTACGAAATGATCTGTCCTGTGGTGTA
TTAGGAATGTCCATGCAGATACAGTTAAACAAGTGAATTGACTGTTCTGTAAAGTTATTTTGGGCAAAGTTGCG
GAGACACATTCTCTGTCCACCTAAGAAATCAGAAGACTCTTCTGTTGATTTATGTTTAAATCATTTCAGTAGTTT
CCCCACAGTGATCATTTCTGCATTTTCTGGCTTTGTTTTCTTGCTGAAAGTGAATGGTGACTGTTAGGAATGT
CAGGGACTAGTGACCCAGTCTGTTTCTGTGTTTTAGTTATTAAAAAGAAATCTGTACCCAAAGTG

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FIGURE 5084A

AGACCATCCAAGAAGACAGTGCAGCCACCTCCGAGAGCCTGGATGTGATGGCGTCACAGAAGAGACCCCTCCCAGA
GGCACGGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATGCCAGGCATGGCTTCCCTCCCAAGGCACAGAG
ACACGGGCATCCTTGACTCCATCGGGCGCTTCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGG
TGAGCTCTGAGGAGTAGAGGAGTTTTAGTTTAAATGAAAAAGCAAAGGAGAAATCAGTAGGTGAACCTAGCCAT
TAGAGGAAGAACTGGCACGTAGCCTCTTGCTGTCTAAGGTCTCGTTCCGTGCTGGAGAATGCATATGAGCCCAAG
AGTGTGGGCTGAGTGGCTGCTTAGGACGTTTTCGTTTAACTACCCCCCTCTTTTCCCTCACAAGGGATGGTGGCC
GGGGTGTGGCTCAGGAATGTAAGGACATGCTGAATTCTGGATCTCTAAGGGTGCCTGGACATGGGCGTTGCAGAA
AGAGAGCCACATTCTCAGGGTCTCTGGTGGTGTGTGCTTGGCGACTTGATGACTGATGTTGCCTCTGCAGCCCAC
ACGCTGGGGTTCAACACTGGGTATGCTCGTTTTTCTGGAGTCAGTGTCTAGCTTCATGTTGCTCTGCGAC
AATCATAGGATTGAGGTGAGGAAGACTTTTTGAACAACTCCTCAATTTAAATCCGCTTGAGCAAACGTTCTCT
GTGGTCTGAGAAGTGGAAGGGGGAGGGATAAATGAGTGTCTATGAATCAAAGCTTTATTATCTTGTGATTCCAT
TAATTTGCATACAGAGTCTTAGAAGTTTTCTTTATTCAAAGCAAATGTGGATAAAAAATGTATTACAAAAA
AACTCTGCTATGGGGTCCAGAGTCTAGGAGTGGTTCTGCAGTTGATTGTCAGTGGAGAACCTGTGGCTGCTGGT
TCATCAAAGCGCTGGTCCCTGAGTGCCATTGAGATTGCAGATGCAGTATTTTACGTGATGTTTAGAGTGTGGT
GGTTGTGTAATTTTGGAGAGAAAGATTTTTCCCAAAAAGTCCCTAGTTTATTGGGTGTTCTCACACAACCTG
TAAGATGAAGCTGTTTTCTGCCTGTGTGCAGGGCTGATTCTGGAATTCAGAAGGCCCTGTGGGAGCGTAAAAG
GCTTTTGAATAAAGTGTGGAACAGAGCGCCTCATTCTGATAACATGCAATCATAAAACCATAGGGCAACTTGGA
GTTAAGGAGTTTCTAGAATTTGCTTTAGTCTCCAAGTCAATTTTATTGATCATGAAATTGTTGAAGAGAAAC
ACAAATGTCAGTTTTACCTTTCTGTGGGCGTGAAGCACATCGAAGTTTACGGCAACTGTTAATCTCTACCA
TCTGTCTGAGTTGAGATTTTCAAGTTGTGACACTTGGCGTACTTATTGTAAATGACATTTTGTGTGCTTAGAT
ACTAATGGAATTCATATTCTGGCTAGTTCTTTTCAAGTGCATTTGTAGACATGTTCTTTTCCCTTTGTAGCAGTCCCTC
CCTCACCTGAAATGTTGGTGTCTAACCGATTTCTAATGCTAATTTCAACTGGAAGCACTTTTTCAAGCCAGC
TATCAAACCACACCAGACATGTATGGATTGCGGTTGCCAATAAAGCGTTGCTATTATGTAAGCATCCCTCACGC
ATACAGCATCACCAGTTTTGAAAGCTTGAATATTCTGCTTACTTCAAGGTACAGAAAAAATGTACTTAAA
CTGTGCAGAAAAGATGAAATCACTGGATAATATGTATTATAAAATAAGCTTCATGTGAGTGACACTGGTTAAGT
TGAAATAAATGGTGAAAGCATTGATATCAATCATTGTGACTTTATCTCAAACAATATTGACACACATAGATGT
TTTTCTTCTTTATGGTAAGATTACAGCCTTTATTGTCTTAAATCTCTTATACTCTTCAATATTTTCAAAGAAAA
CATTCTAGTCTCAGAAATAGTCCATCTCTTTGCAAAACAGGGCTGGCCAATTATCAAGGACCCATAAAATCAAA
ACACTTTCAAATTTTAAAAATAAAATAATTTTACATGATTGCTTTAGGAATTTTGAAGTATCCATTCTTTT
CACTATGGAGTGTGAATATAGAAGATTTTTAATGAACAGGCTTGCCCTTTGATGCCAAAGGCAAAAAATAATA
ATAATAACATTTGCACGTGTGATCACAGAGCAGCTGTGAGGCATCCCGGGGAGCGCACGCAGTGGGGATGTGAT
TGCTCCACTCACTATTTTATCACAAAGTGTGTAAACATGGGAGATGAAAGCTTAACTCTCTTACACCCAGCT
ACAGACCCGCAATGGCCCTAAAAATCTGGGGTATTCAATTGGGTGGGCTGCCATGGAGGAATTTTTGGTTTTGTTT
TTATTTTTATTTGTTGTTCTGTTTACAAATCAGGAGAGCCCCGTGTTTTATATGCTAGGAAGGTCTTTGGGATAG
GCCGAAGAGGTGTGCAAACGAGCAGTGAAGGCCCGGGCCCTGTCTCTCAGGACCACGGCGGCCCTGCCCCACACA
CAGTTCTGCTTCTCCCTATCTAGAAGAGGTTTTCTTGGCAGATTCTTCCAGACTCTGAGTGGAGCCCCCAT
GACCTATAAAAGGGGCTGTTTGTCTCTCTCCACCTCTCTGTGCTCTTCTCTCCCTCCCTTGAGGGCACATGGC
CGCTGGTACCACATGTTGGAGCGGCCGCCCGAGCCCGGAATGCCCTAACAAACACCCATGCTTGTGTGCTGG
GAGCTGACATTCAAGAAAAGTGCAATTAATAATCCTTGAGAAGGCATATTCTTTTGAGAGCCGTAAATGAAAAGT
GCATTACGGAGAACATGCTCCTTTGTTGTGAGAGGAAAGAAAGGACTGTTGTTGCCTTTTAAGGAACAGGTTTCC
CAGTTCCCCGAATGTCAGGGTCACATGAGGAATGGGTGAGCACTTAGGGCCAAGATTGTCGTGTGCTTGGCCCG
GCAGCTTCTCTAAGTGACCTCTCCAGCATCACTCTGTGCCAGTGTCTATCTGAGGCCACTTGAGTGTACAG
AGGCAGAGCCTGGAAACATTAGCTTTGGAAACCGTTTCTTCTTTTATGTGGAGGAAGTAAAGTTTACAAAGAC
ACCTAAGCTGGACATGGTGATGTGCCACTTGGATAGTTCCCAAAGCAGAAAGCAGCCAGGACATCCAGTACCCC
ACTTCTCCGTGCCGTGTACTTTTAGGGAGGTTTTGAAAGCTAGCTTCTTACCGATGATTTTGTCTATTTTCTG
TTTTATGTGAAACCTTCATTTATAACCTGCTCTTCTCAGTGTCTTCTATTTCAGCATTTCAGTATGACTTCTATG
CCTCTAATTGCGACTGTATGGAGAAGAACTGTTTGTCAATTCAGTGCCGTGGGATATAATCAGTCTGTAAATTCA
TCAGAAATGTTCTGTTGCCTGATTTTTTTTTCCATTGCATTTAATTTCAATTAACATATTTTAGTTCTACAGTAAC

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FIGURE 5084B

CTAATTCCTCATTGTTACCATGAGATCCTAATTCTGTAGCTGTGTTCTGTAATCCCATGGGGCATGTACCATTG
GAGACACATGAAGGATACAGTAGACAGCACGGAAGGCAGCAGCAACACACAGGGGTGTCCTCCCTCCCCAGAGCC
CAGTGTGCACACAGAACCAAATTCATCTCATTTCATCGTGAGCTTGTCATGGTAACTGATCCAGCCACTCAGTACC
TCCATTGGATAAGAGATTTGGCCACAGATTCTTCTAGAGAAAATCCAAATGTGGAGGGTGCAATTTGTTTCTGCAC
CCAAACAAATACCTTTTGAGATTTCTTATAGGCATTCTCTCGAAGTCTCATTACTCTGATCAGTTATTGATCGG
AGGCTACCCTGGCTCAGTCACCAGCTGCTCACIGTGTCTTCTGTGGTCTCAGGAGCTGCAGTTGTTGCTGTTGT
ATGAATAGACGATAGTTAATTAGACTGGATGTGTCTGTACTGGCAGTGATTTTGCAACTTCCTCTGTATAAGCGA
TACATTTGTAAATCATGGGAATGTATTTGATGGTAATTGCCTGTGGTGGTTGTATCATGATTTAATTTTATTATG
AGCTTTTGGCTTTATATATTTTTCTGCCTTTTTATGCATTCATTAAACAGTTTAACAGAC

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FIGURE 5085

MGNHAGKRELNAEKASTNSETNRGESEKKRNLGELSRTTSEDNEVFGEADANQNNGTSSQDTAVTDSKRTADPKN
AWQDAHPADPGSRPHLIRLFSRDAPGEGGQHLQRQAL

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FIGURE 5086

CCTGGATGTGATGGCGTCACAGAAGAGACCCCTCCAGAGGCACGGATCCAAGTACCTGGCCACAGCAAGTACCAT
GGACCATGCCAGGCATGGCTTCTCTCCCAAGGCACAGAGACACGGGATCCTTGACTCCATCGGGCGCTTCTTTGG
CGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGGTACCCCTGGCTAAAGCCGGGCGGAGCCCTCTGCCCTC
TCATGCCCGCAGCCAGCCTGGGCTGTGCAACATGTACAAGGACTCACACCACCCGGCAAGAACTGCTCACTACGG
CTCCCTGCCCCAGAAGTCACACGGCCGGACCCAAGATGAAAACCCCGTAGTCCACTTCTTCAAGAACATTGTGAC
GCCTCGCACACCACCCCGTCGCGAGGGAAGGGGGCCGAAGGCCAGAGACCAGGATTGGCTACGGAGGCAGAGC
GTCCGACTATAAATCGGCTCACAAGGGATTCAAGGGAGTCGATGCCAGGGCACGCTTCCAAAATTTTAAAGCT
GGGAGGAAGAGATAGTCGCTCTGGATCACCCATGGCTAGACGCTGAAAACCCACCTGGTTCGGGAATCCTGTCTT
CAGCTTCTTAATATAACTGCCTTAAAACTTTAATCCCACTTGCCCTGTACCTAATTAGAGCAGATGACCCCTC
CCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTACCGGCAATTTCCGGCCAACAGTT
AAATGAGAACATGAAAACAGAAAACGGTTAAAACTGTCCCTTTCTGTGTGAAGATCACGTTCTTCCCCGCAAT
GTGCCCCCAGACGCACGTGGGTCTTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTACCCCTCCACCCTTG
GACTTTCTTTTCGCCGTGGCTGCGGCACCCTTGCGCTTTTGCTGGTCACTGCCATGGAGGCACACAGCTGCAGAG
ACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCTTCCTTTGTTTTTTTTCTGTCTCTCTC
ACCTCCTAAAGTAGACTTCATTTTCTAACAGGATTAGACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTT
TGGTATGTGACATGCGGGCTGGGCAGCTGTTAGAGTCCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAG
GCCGTGGCTGCCACACACCCCAATTAGCTG

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FIGURE 5087

MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKVPWLKPGRSPLPSHAR
SQPGLCNMYKDSHHPARTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGAEGQRPFGFGYGGGRADY
KSAHKGFKGVDAAQGTLSKIFKLGGDRDSRSGSPMARR

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FIGURE 5088

GGCGCCTGAGCGGACTGACGCCGAGACGCGCGGGGTACGCGGCGCGGGGACGCGGGGCGCTGGGCGCGGGGCTG
GGGGCGCAGGCCCGGAGGCCGAGGAGCGCGCGGAGCGGCGATGAGCAGGCGGCCGGTGGCCCCGCGGGGCGCGGA
GCCCCGTGACAGCCTCGGCCAGGCGGGCGCTGCGATGGAGGCCGAGGGCCTGGACTGGCTCCTGGTGCCACTGCAC
CAGCTGGTGCTCTGGGGCGCGGCCGCGGCCATGGTCTTCGAGGGGGTGGTGCCCTACGTCCCGCAGTATCGGGAC
ATTGCGAGGACGACAGAACGCCGACGGCTTCTCCACCTACGTGTGCCTGGTGTGCTGGTGGCCAACATTTTGGCG
ATATCTTCTGGTTTGGGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCCTGACCATGCTG
CTGATGCTGAAGCTGTGCACCGAGGTCCGTGTGGCCAACGAGCTCAACGCCAGGCGCGCTCCTTTACAGCTGCA
GATAGCAAGGATGAAGAAGTCAAGGTTGCCCCAGGCGGTCTTCTGGACTTCGACCCCCACCACCTTCTGGCAG
TGGAGCAGCTTCTCGGACTACGTGCAGTGCCTTGGCCTTACGCGGCGTGGCGGGCTACATCACCTACCTGTCC
ATTGACTCCGCCCTGTTTGTGGAGACCTGGGCTTCTGGCTGTGCTGACCGAAGCCATGTGGGTGTGCCCCAG
CTTTACCGCAACCACCGCCACAGTCCACGGAGGGCATGAGCATCAAGATGGTGCTCATGTGGACCAGTGGTGAC
GCCTTCAAGACGGCCTACTTCTGCTGAAGGGTGCCCCCTGTCAGTTCTCCGTGTGCGGCTGCTGCAGGTGCTG
GTGGACCTGGCCATCCTGGGGCAGGCCTACGCCTTGCCTCGCCACCCCCAGAAGCGGGCGCCCCACGCCGTGCAC
CCCCTGGCACCAAGGCCCTCTGACAGTGGGAGGACGAGGATGTGGGACCGCCAGCCGCGGGCACTGGTGGGCC
CTGACCTCCCCGCGGGGAGGTGGGTGCTGTGGCCCTGCAGGTGTGGCAGAGATGGGGCATGGGCATTGGGGTC
TCCATCAGCCTCTGTGGGGTGTCTCAGGGTGGGCAGTGGGGTGGGGCTGGGACGCTGTTTGTGCTACGCGGGA
CAGCCAGGTTGATCTGGCCCCGAGGGTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTCCTCCATTT
CCTCTTATGAAACACCGTCTGAGCCCAAGGTACACATTGGGCGGCTGCAGGAACCTGCTCCAGGTGGACACAG
GGCCAGCAGCCGCAACCTTGAAGCTGGGGTGACCGCAGGAGACCCTGTAAGGCCTGTGAGCGGAGCCCTCGACC
CCGTGACACCCTGGCCAGACACCCTGCTTGGACTGGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGG
CTGGGGCTTTCTCTGCCTGGTACACACGGAAGGCGGCTGTGCGGACGACGGGTACCGTGCTCCGGGTTTTCTG
ACAGTCGGTGTTCCTGGGCCTTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCTGTGTCCAGCCCGG
CTGAGCATCGCCAGGGCTAGCTCATGTGCTCTTGTGAGCCTCTGGTTCTCCTCGAGTCTTGGGGACGTGGCAG
ATGCCAGCGACCATCAGACAACGTGGAGGCCCTCATGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACAT
GCAGTCTGCACGCCACTCTTGGGCTCTGCTGGCGGAGATCCCCTTCTTCTGGGTGCAGACTGCACCTCCGGATG
CAGTTTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCCCCTGCCGTGCAGG
TCCTGGCCGATGGCGCCTTACCCTGCTGCCCTGGGCTTTTGGCCTGAAGCAAATTCCTGAGTGGGGGTACTGGG
GCCTGCCGATCCTGTCTGTCCACTGCCCCACCCCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCG
CCAGTCTGACCTTGTACCCGACGCTCTGCCCCACCCCGTTGCAAGAGGTCAACCATGTGAGCAGCCTTGCA
CTGACCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCATCGTCTTCCCTTC
CGCAGGTGGAGGGGCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGGGGCCGTGGCCATGGGAAGATGTTCACG
CTGCCTCCTCTCGAGTTTTCTCGGAAACACTCTGAATGTCTGAGTGAGGGTCTGCTTAGCTCTTTGGCCTG
TGAGATGCTTTGAAAATTTTTATTTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAAACT
GTGCGCGACTGCAGGCGCAGTGACTGCTGAATGTACCCTGTGTGGCGACTTGGAATCAATAAACCATTTGTGGAT
CCTG

CTGGGTTTGTCTGC CGCGGTAGGCGCTGCGCTCTGAGCGACGCGAGGCCCGCTACCGACGCCGCCGCCGCCCTT
TGTCCCGTATGGAGGTGCGAGGCGCGGGTTCGCGTTCTCTGCGGAGGGCGCCCCGACGGCGGCTGTGGCCGAGGTGC
GCTGCCCGGGGCCCGCGCCGCTGCGCCTGCTGGAGTGGAGGGTGGCGCGGGCGCGGCCGTGCGCATCGGCTCGG
TGCTGGCCGTGTTTCGAGGCGCGCCCTCCGCGCAGTCTCTCGGGGCCCTCTCAGTCCCGTGTAGCCTCCGGGGGT
GCGTGCGCCCGCGCGCGCCGGAACGCAGGCTGAGGTCGGAGCGCGCGGGCGTGGTGCGGGAGCTGTGCGCGCAGC
CGGGCCAGGTGGTGC GCCCAGGAGCGGTTCTGGTGGGTTGGAAGGATGCAGCCACCCGGTTGTTCATGAAAGGCC
TGTGTGCTGAATGTGGCCAAGACCTCACCCAGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGG
CGACCGTGTCCATGGTGCACAGCGTGCCGGAGTTGATGGTGAGCTCCGAGCAAGCTGAACAGCTGGGAAGAGAAG
ACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGTCTATGGTGGACTTGGACCAGACGTTGATTCACACAACCC
AGCAGCACTGTCAGCAGATGTGGAATAAAGGCACTCTTCACTTCCAGCTGGGCGGGGTGAGCCCATGCTGCACA
CGCGCCTGCGTCCACACTGCAAGGACTTCTTGAGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTCACTTCG
GCAGCCGGCTGTACGCACACACCATCGCAGGCTTTTTAGACCCGAGAAGAAGCTTTTTTCTACCGAATATTAT
CAAGGGATGAATGTATTGACCCATTTTCTAAACGGGAAACCTTAGAAATCTCTTCTTGTGGAGACTCAATGG
TTTGCAATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCCCCAATCTGATAACTGTGAAGAAATATGTATACT
TCCAGGGCACGGGTGATATGAATGCGCCCCCTGGGTCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTCTC
GAGGCACTGAGGTCTCAGAGCCATCTCCGCCCCGTGAGAGACCTGAGGGGGTAACGCAGGCCCTTGGAGTGGAGC
CCAGCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGCGCAGCGAGGCCGCCACCCCGCGGGACTCACCCCGCC
CCGGGAAGCCAGACGAGAGGGACATCTGCCCCCTGCCAGGCCCCACCAGCAGCCAAGAGCTGGCAGGCGCTC
CTGAGCCCCAGGGATCTGTGCGCAGGTGGCCGGGTGGCACCGGGACAGCGCCTGCCAGGGTGGCACGGGCA
CTGACCTGGACTTTGACTTATCCAGCGACAGCGAGAGCAGCAGTGAGTCCGAGGGCACGAAGTCTCTCTCTCCG
CCTCTGATGGCGAAAGCGAGGGGAAAGAGGCCGGCAGAAAGCCGAAGGCTGCCCCAGAGGGAGCCGGGGCGCTGG
CACAGGGCAGTTCCCTGGAGCCGGGGCGGCCTGCAGCACCGAGTCTCCCCGAGAGGGCCGAGCCTGGCGCGCATG
CCCCGGACAAGGAGCCTGAGCTGGGTGGGCAGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCTGGGCAACGGCT
GTGCCGACAGGAAGGAGGCGGAGACCGAGTACAGAACAGCGAGCTGTGGGGGTCACTGCGGGTGAGTCCCTGG
ACCAGAGCATGGAGGAGGAGGAGGAGGAGGACACGGATGAGGATGACCACCTCATCTACCTGGAGGAGATCCTGG
TCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTACCTCAACAAGGAGATCGAGGAGGCGCCGGACATCC
GCAAGATCGTGCCGGAGCTCAAGAGCAAGGTGCTGGCAGACGTGGCCATAATTTTCACTGGGTACACCCGACAA
ACTTCCCGATAGAGAAGACGCGGGAGCATTACCACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTGGTGC
TGAGCCCCGACGCCCTGACAGGGCCACGCACCTGATCGCCGCGCGAGCTGGCACAGAGAAGGTGCTGCAGGCAC
AGGAGTGCGGACACCTGCACGTGGTCAACCCTGACTGGCTGTGGAGCTGCCTGGAGCGCTGGGACAAGGTGGAGG
AGCAGCTCTTCCCGCTCAGGGACGATCACACCAAGGCACAGAGGGAGAACAGCCCTGCGGCCCTTCCCGACCGGG
AGGGTGTGCCCCCACC GCCTTGTTCACCCGATGCCGTTCTTCCCAAGGCCACGCCTGGCCCCGAGGTTCCGGA
TCTACGACTCCAACAGGGGAAGCTCATCAGGACGGGCGCCGGGGGGCCCCAGCACCCTCCAGCTCCCTACCCA
TCCGCCAGGAGCCCTCTTCTTCAGAGCGGTTCCGCCACCCACAGCCAGATGTTGGTGAAGAGCTGCCTGACG
CTCAGGACGGAGAGCAGCCTGGCCCTTCTAGAAGAAAGCAGACGCCAGTATGTCTGAGACAATGCCGCTGTACA
CTCTTTGTAAGGAGGATTAGAGAGTATGGACAAGAGGTTGACGACATCCTTGGAGAAGGCAGCGACGACAGCG
ACAGCGAGAAGAGGAGGCGCTGAGGATGAGGAGGAGGAGGCCAGCCCCGGAAGCCAGGGACCCGAGGGAGCGGA
CGCTCGGGGCACTGCGTCCAGCGAGAGGAGCGCGCGGAGGGGGCCGGGGGCCAGAGGCCACAAGAGGAAGCTGA
ATGAAGAGGACGCCGCCACGAGTCCAGCAGGGAGTCCAGCAACGAGGATGAGGGCAGCAGCTCCGAGGCCGACG
AGATGGCCAAGGCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGGCAGGGACTGAAGCCTGA
CCGACCTCCAGCAGCACTCGGACGTCCCCGGACAGCCCTCAGTCTCGGTCCACGCTGCTTTCTTCCCAAAGGAC
ATGTATATTTGACAGAGCTCCACATACAGAAACACATTATTTTGAGAAATAGGTGTTTTTAAGAAGTTTTACTAC
AGGAATGTCTACTTTTGTAAAGTGACAGGTGTTAAAGGCCAGGTGTGCTGTGCCAAAGAGCTCAGCAGAGGCTCA
CGTGGCCAGGCTGGTGC GCCGCTGTCTCGGTAAGGGGCGGGTGGTGTGTTTTCCCTTGTGTACCAGAGCAC
ATTCTTAGGGGACGGCTTTGGGGGTCCCACGAGACATGGACTAGGAGTTTAAGCAGGACAGTGTGCGTGCACGA
GCTCCGAGCCAGCACAGACATGCCTGGAACCCCCGCGCCTGCTGCTCCCTCTAGGGAACCCATTTCGGGGGA
ACGCCGTGACTGTGCGGCAGCCTGGAGCTTCTGCAGCCTCTACGCAGGTCCACGCCACGTGGCCTGGGCTGC
CATCTTGCCGTCTCTCCACTGGCATCTGGCAAGGGGGCGTTGCTTTTCTGGGCGGCCTTTTATGTCTTGAGA

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FIGURE 5089B

CACCTGATGTAAAGTTTCTGTAAATCTATTTCATATCTGACCCACCAAACAGATTTCCTTTAATAAAAATCCTT
TTTGTAAGTTC

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FIGURE 5090A

CACCCCTCCATCACCCAGCCTGAACTCTACCCATTGAACACGAGCTGCCCAACTCCGCCTTGCTTCCCCATT
CTGGCGACCACTGCTTCTGTCTCTGTGAATTTTACTATTCTAGGCACCTCACAAAAGTGGACTCATACGATATC
TGAGTTTTTGGCTTGCTTCTCTATTGAATTTCTTAAAGGGGGTGGGAACTAAGCAGATCACAAGGGAGCTGCC
CACAGAGGTAAAGACAAGGTCAGGTAGGCTGAGAGACGCAGGAAAGCGGGTCAAGGCGTAGGGCTGGAGGGCAGG
GGCGGGCCCTGGGCGTGGGCTGGGGTCTGCCCCGGGCGCACCCCGGGCGAGGGCTGCCCGGAGGAGCCGAGG
TTGGCGGACAGCTTGCCCTGAGCTTGAGGGGAAGGCAGCGATGGGACAAAGGACGGAGGTCTAGGAAGAGGGT
TGCAGAGCAGAAAGCACGGGTAGGGGCGGCTGACGCTCGGAAGACAACGCATGGGAGCCGTGTGCACGTGGGA
GCTCGGAGTGAGCGTGAGTTCCGTGCCAGGCCGCGACTCGGCCCGACAGGACAGCGCTCCGGGTGCACGGGGT
CCTGGAGCCGCGCTCGGGGAGGGCGCAGCGAGGGCGAGCGGCGGCGTTAGGACCCGGAGGCGGGGCGGACTGG
GGGCGGCGGGGCTAGGACCCAGCGGCTCCGGCAGAGCGGAAGCGGCGGGGAGCTTCCGGGAGGGCGGCTCGCA
GGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTGAGACCTATGCCGTGCCCTTCATCCAGCCAGAC
CTGCGGCGAGAGGAGGCCGTCCAGCAGATGGCGGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTTC
AGCAGGTGGGTGCTGCCACTCACCCCACTGATGAGAGGGCCATCCCTGTCCTGGGCAATCCAGCAACACACC
CTCTGGGAGCAGCCCCCTTGGGGAATCCCGGTCTGGGGAACCCATCTGGCTTCCCTGTGTGGGAGGGGCTGAAG
TGAGAGCCCAACTTGGAAGCTTTTACTCCTGGGAGTCCAAGAGCTCACTCCCTTCCACCCCACTTAGCCTCCTGG
TTTCTGTGGTGGCTCTGCTCTCACAACCTATGCTTTTCTCCATTGGAGGGCTATTCTTCACGTTTCTCTG
CAGCCAACAAATATTTACCCAGCAGTCTGCTGTGCAAGGCAGTGTGGGAATCTCTATATATCCAGCCACGGATA
AGGCAACATACCTCTCCACTGGAGCGCACATTCTGGCAGGAGAGAAAGACCTAAATAGCAATAGATGATTAGT
TCTTCAATAACAGTTGTGACAAGGTCTATTGATAATATTTGTAATCACTAATATTCATATAAACCGTGCACAAC
CATTGATTGAGTGCATTAACTCACACTTCATGAGCAGGCACTGCCGTCTCTATTTTATAGATGAGGAACTG
AGGCACAGAAGGGCTGAGAGACCTGGCCTAGTGACAGAGCCAGGATTCAAAGCCATAGATCATGGCCCCGGGTTA
TGTAGGTTATTACTGCATCTGTTAGGGGAGATGGGGTACTGTGAGGCTCGTCATGGGAAGCCTGGCTTGGTCTC
AGGTGAGGGAAGGCAGAGCTGAGGAAATGACATTTATGGTAAAGTCTGAGGGTTGAGTGGGTAGGTTGGGAAGAA
CATTCCAGAAAGAAGCACATGAACTACAGCCTGGAGGTGGAGGACCTAAAGGAAGCCAGCATGGCTGGAGCACG
GAGTGGCCATTGAGGGAGGCGAGCTGGAGGGCTGCAGCTTCTGTATTGGCAGTCTGACCTCGCACAGTCTTTG
GGCTCCAGTGACTTCACTCAGTGTTTATCTAACATGAGTGAGTGAATGGTGTGCTCTTTTTTTGGTAAAGGTC
CCAGGGGTTGTGGGTACACAGGTCTGTCTTTGGCCATAAGCAAACCTGAAATGAGGCTTGGTCTCCTTCCCAGG
ATCCACACCATGCCTCACATGGTAGACCCAGTGGGAAGTATGTGACTGCCTGACTCAGGTGCCCTCTCGTGGTC
CAAGCCATCCCTGCCCTGTCCCTTCCCTGGTGTGCGCCAGACCTGGAGCCCCCTGCTCCTTCACTTTGACGCTCC
TCTTCTGTACCAACTGGGAACCCACCTCTTCTGAAAGTCTCCCCCACTGACTACCCGGCTTGCCCCGAGTTT
GTCAAGAAATGTCCAGTAACAGGGGACACACAGTGAAGTGACTGAGGGGTTACCTTGGAGTTGATGCCCTTGGCT
CAGATCCAGCTCCCCTGTTTTCTTCTGTGAACCTTGGGCAACCCAACCCCTCTAAGCCTCGGTGTTCTCATTT
GTGAAGTTGTGGTAATAATGGTAGCTTCTGTGTAAGATTATTTTAAATATTAAATTAATCAAACATGCAAAGGA
ATGGAACAGTGCCTGGCACTTAGGAAGCCTTCAGGAATGCTATCTCTTCCCTGTTGATAATCTTGACCCGTACA
CTGCCCTTGGTTGCCATTCTAAACCTGCCACCAATAGTAACAAAGTGCTGGATGCACCTTTTGTGCTTATCTTT
GTGCTAAATGTGCCGAGGGACACCTAGGGAAGAGGATGCAGGTCTTTAAGAGCCATCAGCTCCAGATTATGGCC
ACCCCATGTCCAGCACTTAGAATGGAGGCCAAACCAATTCCCTCGGAAATTGTGTTTCTTGGCAAGATGGGGAC
TGCGTGGTTGCCCTTCTCTGAGGGCAGCGCTGGATTTTTGGCGTCTTTCTTTCTGTCTGCTGGTACTTGGCACCT
TGTAGACAGTTGCATGTCCCCTGCCAGGGATGGGATGAGGAGAGGGCAGGAAGGCATTTCTGGGTAGTGGAGT
GCTGCGTTCAATTGAGTGTGGGTCTCTCAAGCTGCTGGCACAGCGCAGGGAGGGCCAGATGCCTCTCAGGAGCCTT
GGGCTGAGTCTGGCTCCCTCACTCCTGGGTCCAGGTCACTGCATCTGTCTCTCCACCATGTGCTCCACCTCG
TGCTGGACCTTAAGAGATAACCAATTATGTGGTGCCACTGTGTCTAGAGGCTGGAATGGGAACACATAGGGCGA
GATTGATTGTTAATTGCTAGCATGAACCGCGTGGGCTTCTCAGGGTCTAGAGTGGAGAGAAATCGGTAAGAATTG
GTGGCACGCTGTGAGAACTCCCGAGACCAAGCTAAGCAAAATTAACCAATCAGTAGAGCAGCCTTCGGAGTAA
GGGCTAAATGATGTCTCTAGGGCCTGGTTTTGCTTTCTTCCATGTCAGTTTGCTTCTTGGGTCTGGCTGCAT
TCCAGACAGGCCATGCTCTCTGTTAGCAAGGTGACATGACACAGGGTCAGGTCCAGCAGGAAAGAAATGCTGTC
CTGTGTCCCACTTCTCCAGAGCCACACTCACTCATCCACCTGGCTTGGTCCCTCATGTCTATCCAGAAATCC
ATTAATGGGGCCAGGGGACTATGACACACCACTTGGCTTAGACTGAGGAGCTCTGTGGGCAGCCCCACCTGAAGC

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FIGURE 5090B

TC TGGGACTAAGCCTGCGAGAGAGATGGATTCCCCAAGGGAAATGGGGCCATTGCTTGAGTAAAAAGGAAATAGT
TGCTGAAGAGGAAAACCGTGCTTACTCCACATAGGGCAGACTCCTGGAAGAGGGGGGCAGGGTAGGGAGGTGG
ATATGCAGGTTGCCCTGGCAGGGTCTGGAAATGGGGGCTGCAGGCTTGAGGGGAGGCCTCAGTGTGGCTTGGAAC
GTGGTGTATGGTGGTCTGCCGCGAAGGCCGGCCTGCACAGGGGTGGGAGGGGGGTGCTTCTGCATGGGAAGCACA
GACAGCGCTGCCTCTCCCTTGCACTCAGCTCTCGGGCATGAGAGGCTAACTTTCCGTGAGCCTGTGGGCCAGGC
CTCTTTGAATGGGGCTGAGGGAGCTTTGCCCTGGTTCTTTGTGTCCCCACGGTGCCACGGGAGGCTCCCTGGCA
GGGTGTGGGGCAGGGCAGTGAGTGAAGAGTTGGGATGAGTGAGTTAGGGCCCACGGATTACTCAAGACAGGACTT
CAAGTTGATTCAAGCGTGTAGGGAGCTGTGATTGGATTTTGAGCAGGGCAGGGATGGGACAGAAGAGTTTGGGG
AAGGTTCCCTCAGGCATCCGTCACAGAAGGGACAAGAAGGGAGAGAGAGTGGATGCCAGGGACACCCAGAAGCTGT
TATTGTAGTCAGGATACGACAGGGGTGAGGCTACAGACAGGGGACTTGCAAGCAGGGAGGGCAGGGTGAGACATT
CAGAGGAAACGACGACAGGAAATGGTGACAGATAGGGAACGAGGATGAAGGGAAGGGAGAGCCAGTGACGACTGG
CAGTGGAGTGGGGAGCACCGCCACCTCTCCTCCTCCACTTGCCCCCTCCTGTGGCACTGGACAAGCTAGTGGGCTT
TTCGTTGTCCATGGGCTTTTTCGGTGGGGATGTGAACAGCTTTGAACCCGTCCCCTTAAACATGCTCCTCCTGCA
CGGAAGAGACAGGGGCAGGGGAGAGACTCTCTCCCCACCACCCGGCTCAGGCCCCAGCACAGCCCGGCTCTGGC
CTCACTGGCGTCTGTGCCCAGTGACGCAGGCAGGTGAGCTCCTGGCAAATTAGCATTGCAGGCTGTGCTCTCTCC
TCCTGCTCTGCTGCAGCTGGGAGTGTGCAGAGACTGGAGGGGATGACAGTCACCCCTCTGTTTTCTGTGGTGGCTC
TGTTTTCTGTGGTGTGCTGGATGCACCTCTGTTTTCTGTGGTGGCTCCAAGAGAGTGCACGGTCCCTGCTGATTGAA
AGAAGGATGAAGGGCAGAAGAGGGGCGGGAGCTGTGTGCCCTAAGATCTCATTGCCTTTTTATGCCGATTAAACA
TGCTTTTAGCCCTACTGAGCTTATAGTTAACAGAAGTTTCCAGGTCTTTCTTCACCTGAAGTGTGTCTAAAGCA
AGTTCCCTCCACCTTCTGTATTATACGCTTGATTTTTAAACCTAAATGTTGGGCTTCACATTTGTTCTTGTA
AATTCATCTGGTGATTGCAGTCTACCCTCTGGCC

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FIGURE 5091

MRGPSLSWAIPATHPLGAAPLGNEPGGEPDWLPCVGGAEVRAQLGSFYSWESKSSLPSTPLSLLVSCGGSALTTH
AFPPIGGPIPSRFPAAANKYLPSSARVQGSVGISIIYPATDKATYLTWSAHSGRRERPK

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FIGURE 5092

AGATGATGATTATTCCCCACCTTCTAAGAGACAAAGACCAACGAGCCGCCACAGCCACCAGTCCCAGAACCCGCC
AATGCTGGGGAACGGAATGAGGGAGTTCAACTCTGGCCCTCACAATCCAGTGGAGGAGACGCAACTCATCTGC
CTCTGTCCCTCTGGGCACGCCCTCGTGCCAGGTGCATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGG
AGAAAGCTGCCAGGCTCAGGCTGAAGGCCAGAATTCTACAGTAAGTCCTACTGAGTCAAGGTGGGAGCAGGGTC
GGTAGCTTCCGAGGCTCTGCGGGAGAATCTGTTTCTGGCCGTAGAGGTGGCCTGCACCTCCTCAGCCTGTGCTGC
CCGTCTCGAATGACTGGAGTTTCTGCTTCTGTCACTACACCTCCACCCCTCTCCATCACCTGCTCTGCTCTTAC
AAGGATCCGAAGAAATGGAATCATCGTATCGCTGATCTACGTAAACAACTGAAGAATTGTCTGAAAGAAAATAT
GACATGAACCTTATGAATTCAATAGGTGAAGATTTACAACCTFGATAAATCAACTTTGTGACGCTCGAGCTGTAAAG
CCAAAGGTCCGGTGATGATCCCATACCCCTTTTTTCCAGTCTCATGTTGAAGATTTTTATGTAGAAGGCCCTTCCCA
AAGGAATTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTTTTCACTCTTATCGCCAGGCTGGGGTGCAATGGCAC
AACCTTGCTGGTCACTGCAACCTCTGCCTCCTGGGTTCAAGAAATTCTCCTGCCTTAGCCTCCCAAGTCACTGGG
ATTACAGGTGCCACCACCACACCAGGCTAATTTTTGTATTTTTAGTGGAGATGCGGTTTACCATGTTGGCCGG
GCCAGTCTCGAAGTCTGACGTCAAGTGATCTTCCCGCTCGACTCCTGATATCAAGTGATCTTCCCGCTCGGC
CTCCAGAGTGCTGAGATTACAGACGTGAACCCATGCCTGGCCAGGAATTTGTTTTTTAGGAAGGCTTTCTACT
AATGGAATTCCTGGCCTTGAGAGGATGTTACTTTAGAAGGAAAGGATTTTTTTGTTATTAAGAGCTGGACCTACC
ATGAAAGACTTCTGAATCCAGGAAGAGAACTGACTGGGCAACATGTTATTCAGAAACAGGACCTTGCCCTGTCA
CTCAGGATGGAGTTTCACTGGTCTATCATGGCTCATTATAGCCTCAAACCTCCAGGCTCAAGCAATCCTACCATG
TCAGCCTTCCAGTAGCTGGAAGTACAGATACCGGCTCTCACACTGTCACCCAGGCTGGAGTACAGTGGCACAAC
CTCTGCTCACTGCAGCCTCCACCTGCCAGGCTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGTGATTT
CCAGGAAGTGCGCTCACAATGACTCAAGCTGCCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGCTCT
GCAAGCTTAGGGGTGCTACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAACGGCGTGGGATGTTCTCT
TTCAAATGCACTTGAGCAGCGGTCTCCAACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTGT
GAATCCAGGAAGAGAGACTGACTGGGCAACATGTTATTCAGAATCTCCTGTGCCATCCAGGCTGGAGTGCAGTG
ATGTGATCATAGCTCACTATAGCTTTGGCCTTCTGAGATCAAGCAATCCTCCCATCTCAACCTCCCAAGTAGCTA
GGACTACACACGCATGCCACCCATGCCAGATCATTTTGTAGAGTCAGAGTTTACCCTGGTGGCCAGGTTGGC
CATGTTGGCCAGATGGGGTCTTCTTTTGTGGCCAGGCTGGCCACAAATCCTGGGCTCAAGTGATCCTCCACC
TCGTCTTGTAGAGATGAGATTTAGTTATGTCGTCCAGGCTGATCTCAAACCTCCTGGGCTAAATCGATTGTCTCA
CCTCAGCCTCTCAAGTATGTTATGAAGGTTATATGTTAGGAAGGGTCCAGGAGGTAAACCCACACAGATGGGAT
TTGGGCATAGGTTTGGTTTCCAGGGGGCAGTGCTGAGCTCTTGGCAGTGGGAAATGGGATGCTGGTGATTTC
AGTAGGTGACCTCACAGTCAAGCTACCACTTACTGTTGATTGTGACGAAATGCCAGCTGAGGCACATGCCCT
TGGGAGCTAAGTGGTTGCTGCCCTTGACCACTGTGAAGACTGGTGTGGGAAGGGTCGTTTTGGATGCACTTGAGC
AGGGGTCCCCAACCCCTGAGCCATGGAGCCGCAAGGAGCCACACAGCAGGAGGTGGGAACATCCAGTTGCAGGAA
AACAAGCTTAACACGCCCCTGATTCTACATTATGCTCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCT
CCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCTACGTACAGGCAGCCT
CCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCA
GCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACCTTCTCAAGTC

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FIGURE 5093

GCGACGGGACGCGCTGGGACCGGCGTCGGGGGTGCGGGGGACCATGAGCGGAGGTGGGTCTTCGTGCTGCTCGA
CGTGCTGTGCTTACTGGTCGCCTCCCTGCCCTTCGCTATCCTGACGCTGGTGAACGCCCCGTACAAGCGAGGATT
TTACTGCGGGGATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCACCCACGGGCTCATGGCTGGGGTCAC
CATCACGGCCACCGTCATCCTTGTCTCGGCCGGGAAGCCTACCTGGTGTACACAGACCGGCTCTATTCTCGCTC
GGACTTCAACAACACTACGTGGCTGCTGTATACAAGGTGCTGGGGACCTTCCTGTTTGGGGCTGCCGTGAGCCAGTC
TCTGACAGACCTGGCCAAGTACATGATTGGGCGTCTGAGGCCCAACTTCCTAGCCGTCTGCGACCCCGACTGGAG
CCGGGTCAACTGCTCGGTCTATGTGCAGCTGGAGAAGGTGTGCAGGGGAAACCCTGCTGATGTCACCGAGGCCAG
GTTGTCTTTCTACTCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTTCCTGGCGCTGTATGTGCAGGCACG
ACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCCTGGTGGCCTTTGCCCTCTACGTGGG
CTACACCCCGGTGTCTGATTACAAACACCACTGGAGCGATGTCTTGTGGCCTCCTGCAGGGGGCACTGGTGGC
TGCCCTCACTGTCTGCTACATCTCAGACTTCTTCAAAGCCCGACCCCAAGCACTGTCTGAAGGAGGAGGAGCT
GGAACGGAAGCCAGCCTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCACTATGGATACCCGCACTC
CTCCTCCTGAGGCCGGACCCCGCCAGGCAGGGAGCTGCTGTGAGTCCAGCTGATGCCACCCAGGTGGTCCCTC
CAGCCTGGTTAGGCACTGAGGGTTCTGGACGGGCTCCAGGAACCCTGGGCTGATGGGAGCAGTGAGCGGTTCCGC
TGCCCCCTGCCCTGCACCTGGACCAGGAGTCTGGAGATGCCTGGGTAGCCCTCAGCATTGGAGGGGAACCTGTTT
CCGTGCGTCCCCAAATATCCCTTCTTTTTATGGGGTTAAGGAAGGGACCGAGAGATCAGATAGTTGCTGTTTTG
TAAATGTAATGTATATGTGGTTTTTAGTAAATAGGGCACCTGTTTCACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5094

MQRRWVFVLLDVLCLLVASLPFAILTLVNAPYKRGFYCGDDSI RYPYRPDTITHGLMAGVTITATVILVSAGEAY
LVYTDRLYSRSDFN NYVAAVYKVLGTFLFGAAVSQSLD LAKYMIGRLRPNFLAVCDPDWSRVNCSVYVQLEKVC
RGNPADVTEARLSFYSGHSSFGMYCMVFLALYVQARLCWKWARLLRPTVQFFL VAFALYVG YTRVSDYKHHWSDV
LVGLLQ GALVAALTVCYISDFFKARPPQHCLKEEELERKPSLSLTTLGEADHNHYGYPHSSS

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FIGURE 5095

GCCGCGGGCGGGCGGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTC
GTGCTGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCAGTCTTCACTACCGTAGAA
GACCTTGGCTCCAAGATACTCCTCACCCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTG
AAGGGGGCGTGGTGTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAG
TGGGGAGAGTACTCCTGCGCTTCTCTCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCTCCAGAA
GTGAAGGCTGTGAAGTCGTGAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTG
CCACCTGTCACTGACTGGGCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGC
AGGTTCCTCGTGAGTTCTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGC
CAGTACCGGTGCAACGGCACCCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTG
GCCGCCCTCTGGCCCTTCTTGGGCATCGTGGCTGAGGTGCTGGTGTGCTGGTCACCATCATCTTCACTACGAGAAG
CGCCGGAAGCCCGAGGACGTCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAG
AATGACAAAGGCAAGAACGTCCGCCAGAGGAACCTCTCTCTGAGGCAGGTGGCCCGAGGACGCTCCCTGCTCCACG
TCTGCGCCGCCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCC
GTAGATTCCCATCATACACTTCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAAGGATTCTGTTCTTAGGT
TTTTTCTTCTGAAGTGTTTACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCGCTGTGGCTTTACGCCTCT
GGGTCTGAGTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCTTGCCCTTTG
TGGAAAGTCACAGGTCACACGAGGGGCCCCGTGCTGCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTT
TGTGCTTTTATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTT
GGCCACAGAGGACTCACTGCCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTT
GTCTGTGCATCCGGGGGAGCTCTGGAGGGGGTTGCTGGGGAACCTGGCGCCATCGCCGGGACTCCAGAACCGCA
GAAGCCTCCCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCTCCC
ACCCACCGCCACAATAAAGATCGCCCCACCTCCACCTC

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FIGURE 5096

MAAALFVLLGFALLGTHGASGAAGTVFTTVEDLGSKILLTCSLNDSEVTGHRWLKGGVVLKEDALPGQKTEFK
VDSDDQWGEYSCVFLPEPMGTANIQLHGPPRVKAVKSSEHINEGETAMLVCKSESVPPVTDWAWYKITDSEDKAL
MNGSESRRFFVSSSQGRSELHIENLNMEADPGQYRCNGTSSKGSQAIITLRVRSHLAALWPF LGIVAEVLVLVTI
IFIYEKRRKPEDVLDDDDAGSAPLKSSGQHQNCKGKNVRQRNSS

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FIGURE 5097

CGGGCGGCGGCGGCAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTTCGTGC
TGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACC
TTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTACAGGGCACCCTGGCTGAAGG
GGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGG
GAGAGTACTCCTGCGTCTTCTCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGGCTCCAGAGTGA
AGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCAC
CTGTCACTGACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGT
TCTTCGTGAGTTCTTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGCCAGT
ACCGGTGCAACGGCACCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTGGCCG
CCCTCTGGCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTCTGGTCAACATCATCTTTCATCTACGAGAAGCGCC
GGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAGAATG
ACAAAGGCAAGAACGTCCGCCAGAGGAACCTTCTGAGGTGGCCCGAGGACGCTCCCTGCTCCACGTCTGCGCC
GCCGCCGAGTCCACTCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATT
CCATCATACACTTCTTCTTTTAAAAAAGTTGGGTTTTCTCCATTAGGATTCTGTTTCTTAGGTTTTTTTTCC
TTCTGAAGTGTTTACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCGTCTGTGGCTTTACGCCCTCTGGGTCTGA
GTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCTTGGCCCTTGTGGAAAGT
CACAGGTACACGAGGGGGCCCGTGTCTGCTGCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTGTGCTTT
TATGTTTAAATTTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTGGCCACAG
AGGACTCACTTGCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTGTCTGTGC
ATCCGGGGCAGCTCTGGAGGGGTTTGTGGGGAAGTGGCGCCATCGCCGGGACTCCAGAACCGCAGAAGCCTC
CCCAGCTACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCTCCACCCACCG
CCACAATAAAGATCGCCCCACCTCCACCCTC

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FIGURE 5098

GGCACGAGGATACCTCCTCATCAACTCTGACATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGG
CCGGCGGGGGTGCCGCGGGGGGGCGGGCGGGCGGAGTAGGTGGCGGGGCCATGCGCCGAGGCGTCGCCGCAT
CCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGATTATATCTGTCCAAGATGC
GAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAATGGTTCTGCCCCCTCCACAGCTCCC
ACAGACCAGAGCCGGCCACCGCTGGAGCACGTGGACCAGCACCTGTTACGCTGCCGAGGGCTACGGACAGTTT
GCTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGACGGCAGGGAC
CCTGAGAGCCGGCGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCGACAGCCCCGCGCCCGCCTCACC
ACGCGGGCGGGCCACCGCGCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTCAACGGCATC
ATCACGCCCCGCCACCATCCCCAGCCTGGGCCCCCTGGGGAGTCTGCACTCAAACCCTATGGACTACGCCTGGGGG
GCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAAACAGGCCCCCACCAGGAGATAAA
GAGAAAATCCAGGCCCTCCCCACCGTCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGTGC
AAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGCTGCATCGTG
CCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCCACGAACCCC
CCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCTCATCGTCTCCTCCAGCTCGCCAGCAACGAGAACGCC
ACAAGCAACTCGTGAGCCACGTGCGCCGTGCGGAAAGCACGGGGCCTTTCCACCCACCTCAGCCAGCGCCAC
ACGGCACCCACAGACTGGGTGCCCCGGCGGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCCTGTTCCAGG
GCAGGACCCGGGCCCCGGCCCCACGGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCCTCTGGGGCGTCCC
CAGCCTCCCCGTCTCTGTCTAACCTCACCTCTAAACGTTACGCGGTGGAAAGATTTTATAATTTTAAATTAT
TACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGACGGGGCCAG
CGGCTCCCCCAGCGCTGAAGCACGGGGTTACGCGGCTCCCCAGTGCTGCAGGTGCCGCCAGGACGGGCCACGTG
GGCCCCCAGCCTCCCCCTCGGCCGCTCCACGACCCGAGTAGGGGGGCTCGGGACCATGAGGATGACCAGCAAA
ATTCAAGAACAAAACCTGCTCCAACAGACTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTATTTAAATAC
ACTACTTACAAAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5099

MAEASPHPGRYFCHCCSVEIVRLPDYICPRCESGFIEELPEETRSTENGSA
PSTAPTDQSRPPLEHVDQHLFTL
PQGYGQFAFGIFDDSF EIPTFPFGAQADDGRDPESRRERDHP
SRHRYGARQPRARLTTRRATGRHEGVPTLEGI
I
QQLVNGIITPATIPSLGPWGLHSNPMDYAWGANGLD
AIITQLLNQFENTGPPPADKEKI
QALPTVPVTEEHVGS
GLECPVCKDDYALGERVRQLPCNHLFHDGCIVPWLEQ
HDS CPVCRKSLTGQNTATNPPGLTGVSFSSSSSSSSSS
SPSNENATSNS

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FIGURE 5100

CTTGTGAGTCTATAACTCGGAGCCGTTGGGTGCGTTCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGGGGTC
TGCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCTACTAACGGACCCTTTATCATGAGCAGCAACTCGGCTTCTGACGAAACGGAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTAC
GGAGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTCATCGAGATGAACACGGAGGCTGCCAACACCATGGTGAACTACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCAACCAGGCGCG
GGCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCGCTCGGCGCGGCGCT
GGACGCAGGATGGCGATGGCCGGGAGAGCCCGTGCTCAGGATCATCGTGAGAACCTCTTCTACCTGTGAC
CCTGGATGTGCTGACACAGATTTTCTCCAAGTTCGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGTGCTGACGATGCGGACCCCGTGAGCGCCAGCACGCCAAGCTGTGCTGGACGGGCAGAACAT
CTACAACGCTGTGACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACATGACAA
GAGCGGTGACTACACAGCCAGACCTGCGCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGG
CTTCGCTCTCCGTATGACAGGAGCTGGTTTCCCTCCACCTTTGCCATTCTCAAGCTGCAGGCCTTTCCGTTC
GAACGCTCCACGGCGCCTGGCCCCCTGGCCATCCCTCGCGCGCGCGGCAGCTGCGGCGGCAGGTCGGATCGC
CATCCCCGGCCTGGCGGGGACAGAAATTCTGTATTGCTGGTCAGCAACCTCAACCCAGAGAGAGTCACACCCCA
AAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGACGCGCTGAAGATCCTGTTCAATAAGAAGGAGAACGC
CCTAGTGACAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAACGGGCACAAGCTGCACGGGAA
GCCCATCCGCATCACGCTCTCGAAGCACCAGAAGCTGACAGCTGCCCCGCGAGGGCCAGGAGGACCAGGGCCTGAC
CAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAATTCCAGAACATATTTCCGCC
CTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAGGTCTGTTTTCCAGCAA
TGGGGGCGTCTGCAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACTGATCCAGATGGGCTCCGTGGA
GGAGCGGCTCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCAACCTGCGGGTCTCCTTCTC
CAAGTCCACCATCTAGGGGCACAGGCCCCACGGCGGGGCCCTGGCGACAACCTCCATCATTCCAGAGAAAAG
CCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTAAAGAGAAATCAGTTTACCTGT
TTTTAAAAAATTAATCTAGTTACCTTGCTCACCTGCGGTGACAGGGACAGCTCAGGCTCTTGGTGACTGTG
GCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCTCGGGGCCATGCCCTGGTGGGGCTGTGTGCGGC
GTGGGGCTGCAGGTGGCGCCCCGACCAGCACTGGCTTCCTTGTGCTTAAAAAACCTGCCTTCTGACGCCA
CACACCCACCCGGGGTGTCTGGGGACCAAGGGGTGGGGGGTACACCAGAGAGAGGACAGGGGGCCTGGCCGG
CTCCTGCAGGATCATGACGCTGGGGCGCGCGCGCGCTGCGACACCCCAACCCAGCCCTCTAATCAAGTCA
CGTGATTCTCCCTTACCCCGCCCCAGGGCCTTCCCTTCTGCCCCAGGCGGGCTCCCCGCTGCTCCAGCTGCG
GAGCTGGTGCACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGCCTAGCAATATTTCCAGTTGA
CCAAATATTCTAATCTTTTTTCAATTTATATGCAAAAGAAATAGTTTTTAAGTAACTTTTTATAGCAAGATGATACA
ATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGATGCTGTTACTTTTTATTTTATTCCTTGTAAAT
AAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCCGCCAGTGGGTGAGGCACAGGGAGCCCCGGTCC
TATCTTAGAGCCCTGAGCTTCAGGGAAGGGCGGGCGTGTGCGCGCCTTGGCATCGCCTCCGGTTGCCTTACA
CCACGCCCTTACCTGCAGTCGCTAGAAAACCTGCTCTCAAACTTCAGGGTTTTTTCTTCTTCAAAATTTTGGAC
CAAAGTCTCATTCTGTGTTTTGCCTGCTCTGATGCTGGGACCCGGAAGGCGGGCGCTCCTCCTGTCTTCTCTG
TGCTCTTTCTACCGCCCCCGCTCTGTCCGGGGGCTCTCCTAGGATCCCCCTTCCGTAAAAGCGTGTAACAAG
GGTGTAATATTTATAATTTTTTATACCTGTGTGAGACCCGAGGGGCGGGCGCGGTTTTTTATGGTGACACA
AATGTATATTTTGCTAACAGCAATTCAGGCTCAGTATTGTGACCGCGGAGCCACAGGGGACCCACGCACATTC
CGTTGCCCTTACCGATGGCTGTGACGCGGAGAGAACCATTAAACCGTTTGAAGAACTCCTCCCTTGTCTAGC
CCTGTGTTGCTGTGGACGCTGTAGAGGCAGTTGGCCAGTCTGTACCTGGACTTCGAATAAATCTTCTGTATCC
TCGCTCCGTTCCGCCTTAAA

A

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FIGURE 5101

MDGIVPDI AVGTRKGSDELFTCVTNGPFFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTTSVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAAASAAAVDAGMAMAGQSPVLRRIIVENLFYPVTLDVLHQIFSKFGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPSLDQTMAAAFASP
YAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAAAAGRIAIPGLAGAGNSVLLVSNLNPVRTPQSLFI
LFGVYGDVQVRKILFNKKENALVQADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYG
NSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSNNGGVVKGFKFFQKDRKMALIQMGSVEEAVQ
ALIDLHNHDLGENHHLRVSFSTI

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FIGURE 5102

CTTGTGAGTCTATAAAGCTCGAGCGCGTTGGGTGCGTTTCTCTGCTATTCCGGCGCCTCCACTCCGTCCTCCCGCGGGTCTGCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTCTACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTACAGGAGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGAAAAACCA GGCCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACACCTCGGTGACCCCTGTGCTGCGCGGCCAGCCCATCTACATCCAGTTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG GGCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGCGCGCGCG GGACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCTTGTGAC CCTGGATGTGTGTCACCAGATTTTCTCCAAGTTCGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCA GTTCCAGGCCCTGCTGCAGTATGCGGACCCCGTGAGCGCCAGCAGCCAAAGCTGTGCTGGACGGGCAGAACAT CTACAACGCCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACATGACAA GAGCCGTGACTACACAGCCAGACCTGCCCTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGC CTTCGGTGCACCTGGTATAATCTCAGCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCACCTTTGCCATTCTCTCA AGCTGCAGGCCCTTTCGTTCCGAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCCCTGGCGGGCGCGGCAGC TGCGGCGGCAGTTCGGATCGCCATCCCGGGCCTGGCGGGGACAGGAAATTCTGTATTGCTGGTCAGCAACCTCAA CCCAGAGAGAGTCACACCCCAAAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCT GTTCAATAAGAAGGAGAACGCCCTAGTGAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAA CGGGCACAAGCTGCACGGGAAGCCCATCCGCATCAGCTCTCGAAGCACCAGAAGCTGCAGCTGCCCGCGAGGG CCAGGAGGACCAGGGCCTGACCAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAA CTTCAGAACATATTCCCGCCTCGGCCACGCTGCACCTCTCCAACATCCCGCCTCAGTCTCCGAGGAGGATCT CAAGGTCTGTTTTCCAGCAATGGGGGCGTCGTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACT GATCCAGATGGGCTCCGTGGAGGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCA CCACCTGCGGGTCTCCTTCTCCAAGTCCACCATCTAGGGGCACAGGCCCCACGGCCGGGCCCCCTGGCGACAAC TTCCATCATTCCAGAGAAAAGCCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTAA AAGAGAAATCAGTTTACCTGTTTTTAAAAAAATTAATCTAGTTTACCTTGCTCACCTTGCGGTGACAGGGACAG CTCAGGCTCTTGGTGACTGTGGCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCTCGGGGCCATGCC TTGGTGGGGCCTGTGTGGGCGTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGGCTTCTTGTGCCTTAAA AAACCTGCCTTCTCTGCAGCCACACACCCACCCGGGGTGTCTGGGGACCCAAGGGGTGGGGGGGTACACCAGAG AGAGGCAGGGGGCCTGGCCGGCTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCCGCGGCTGCGACACCCCAAC CCCAGCCCTCTAATCAAGTCACGTGATTCTCCCTTACCCCGCCCCAGGGCCTTCCCTTCTGCCCCCAGGCGGG CTCCCCGCTGCTCCAGCTGCGGAGCTGGTTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTG CCTAGCAATATTTCCAGTTGACCAAATATTCTAATCTTTTTTTCATTTATATGCAAAAGAAATAGTTTAAAGTAAC TTTTATAGCAAGATGATACAATGGTATGAGTGTAATCTAAACTTCCCTTGTGGTATTACCTTGTATGCTGTTACT TTTATTTTATTCCTTGTAAATTAAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCGCCAGTGGGTG AGGCACAGGGAGCCCCGGTCTATCTTAGAGCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTGCGCGCTCTGGC ATCGCCTCCGTTGCTTACACCACGCCTTACCTGCAGTCGCCTAGAAAACTTGCTCTCAAACCTCAGGGTTTTT TTCTTCTTCAAATTTTGGACCAAAGTCTCATTTCTGTGTTTTGCGCTGCTCTGATGCTGGGACCGGAAGGCGG GCGCTCCTCCTGTCTTCTCTGTGCTCTTTCTACCGCCCCCGCGTCTGTCCCGGGGCTCTCCTAGGATCCCTT TCCGTAAAAGCGTGTAACAAGGGTGTAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGC GCGGTTTTTTATGGTGACACAAATGTATATTTTGTAAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCA CAGGGGACCCACGCACATTCCGTTGCCCTTACCGATGGCTTGTGACGCGGAGAGAACCAGATTAAACCGTTTTGA GAAACTCCTCCTTGTCTAGCCCTGTGTTGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACT TCGAATAAATCTTCTGTATCCTCGCTCCGTTCCGCCTTAAAAA

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FIGURE 5103

MDGIVPDIAGVTKRGSDELFSTCVTNGPFFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTSTVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRRIIVENLFYPVTLDDLHQLFSGFTVLKII TTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLP SGDSQPSLDQTMAAAF GAP
GIISASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAGRIAPGLAGAGNSVLLVSNLNP ERV
TPQSLFILFGVYGDVQRVKILFNKKENALVQADGNQAQLAMSHLNHKLHGKPIRITLSKHQNVQLPREGQEDQ
GLTKDYGNSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFKFFQKDRKMALIQMG
SVEEAVQALIDLHNHDLGENHHLRVSF SKSTI

FIGURE 5104

GCATGCCCCATCAGCCTTCAGCTTGAGCCCGCGCGGCCCGCCCGCCCGCCCTGCCACCTGCACTGCCCCGGCT
CCCCCGCGGCCCCACGCTGCAGTGCGGCCGGGCCCTTCCCGCAGGGGCCCGCCCGCCGCCACCCCTAGCG
CCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGCGCCAGGGCCATGAACTACAGGCCGTGATGGAGA
CGCTGTTGCAGCGCAGCAGCGGCGCGCCAGGAGCTGGAGGCCGGCAGCAGCTGCCCCCGATCCCCCTGCTG
CACCCCCCGCGCGGGCCCGGCTGCCCCGACGAGGACAGAGACCCGAGAGTGCCCGGATGCAGCGGGCTCAGA
TGGCCGCACTGGCAGCCATGCGGGCTGCAGCTGCGGGCTGGGACACCCAGCCAGCCCCGGCGGCTCTGAGGATG
GGCCCCAGGCTCGGAGGAGGAGGACGCGGCCCGGAGGGGACACCGGGCTCACCCGGGCGAGGCAGAGAAGGGC
CAGGAGAGGAGCACTTTGAGGACATGGCCTCCGACGAGGACATGAAGCCCAAATGGGAGGAGGAGGAGATGGAGG
AAGACCTCGGGGAGGATGAGGAGGAGGAGGAGGATTACGAGGATGAGGAGGAGGAGGAGGAGGACGAGGAGGGGC
TGGGCCCCCAGGCCCTGCCAGCTTGGGCACCACGGCACTGTTTCCCCGAAAGGCCAGCCACCCAGGCCTTCC
GCGGCGATGGCGTTCCAGGGTGCTGGGGGGCCAGGAGCGGCCGGGGCTGGCCCTGCCACCCCGAGGGGGCCG
CCACGTAGCCCCGAGCTGCAGCCGCTGACCACGGCGACTGGACTTACGAGGAGCAGTTTAAAGCAGCTCTACG
AACTCGACGGGGACCCCAAGAGGAAGGAATTCCTGGATGACTTGTTTACGCTTCATGCAGAAGCGAGGGACACCTG
TGAACCGCATCCCCATCATGGCCAAACAGGTCTCTTGACCTGTTTATGCTGTACGTGCTGGTGACGGAGAAGGGCG
GCCTCGTGAGGTCATCAACAAGAAGCTGTGGCGTGAGATACCAAGGGCCTCAACCTGCCACGTCCATCACCA
GTGCAGCCTTCACCTGCGGACCCAATACATGAAGTACCTGTACCCCTACGAGTGTGAGAAGCGGGGCCCTAGTA
ACCCCAATGAGCTCCAGGCAGCCATAGACAGCAACCGACGGGAGGGGCCGGCGCCAGAGCTTTGGTGGCTCCCTCT
TTGCCTACTCGCCAGGCGGGGCACACGGCATGCTCTCTCTACCCCAAGCTACCCGTGTCTCTCCCTGGGCTGGCCG
CAAGCACCAATGGCAGCTCCATCACCCCGCCCCCTAAGATCAAGAAAGAGGAGGACTCAGCCATCCCCATCACAG
TCCCTGGCCGCTGCTGTGTCTTGGCGGCCACCCTGTGGTGGCAGCCCAGGCAGCAGCTGTGCAAGCAGCAG
CGCCCAAGCAGCTGTGGCCGCACAGGCAGCTGCCCTGGAACAGCTGCGGGAGAAGCTGGAGTCTGCAGAGCCTC
CGGAGAAGAAGATGGCCCTGGTGGCCGATGAGCAGCAACGGCTGATGCAACGTGCACTCCAGCAGAACTTCTTG
CCATGGCGGGCCAGCTGCCCATGAGCATTGCGATCAACAGCCAAGCCTCCGAAAGCCGCCAGGACTCTGCTGTGA
ACCTGACGGGCACCAACGGCAGCAACAGCATCAGCATGTGCGTGGAGATCAACGGCATCATGTACACAGGAGTTC
TGTTTGCTCAGCCGCCGGCCCCACGCCAACCTCTGCTCCCAACAAAGGAGGCGGCGGCGGCGGCGGCAGCAGCA
GCAACGCAGGCGGCCGGGAGGAAACACCGGAACAGCGGCGGCCAGGCTGGGCCAGCGGGGCTGTCCACACCCT
CCACATCTACCTCAAATAACTCGTTGCCTTAAACCGCATCACTCCCCACCCGCCACCCACCCTGGAGCCCGCGGC
CTGGGCAGGGGGTCCAGGTGGGCCACACAGGGGCCAGGATGGCGGAAGATACGGGTGGGGAGGGAAGATATCCAG
AAAGGAGCCACAGCTGACGCCAAAAAGAAAAGAAAAAGATATATATATATATATATATATATATATATACGTATATAT
ATAAAGAAGAATTTAATAAAAACAGGGGAAAACCAAGGAACACTTGAATTTCTCAGGTTTTGGACATTCAGAGAGA
TGAATTGTGAGAACAGCAAAGAAATCCATCAGAAAAACAGAAAGAGGCAGACGTTTCCAGGGCGTTTACGCAGC
CCTGATGGACCGAAGGCTCTGGTGTCTGGTTTGGCCCCACAGCAGTGTGGGCCGATCCTGTTTACCTCATACATC
CCTGCACTGTGTGTTTTTCATTTTTGTCTGCTTTAGTTTCTCTTTTATTTTCTATTACCCACACACTCACCCTCC
AGCTTCTCGTGTCAGTGAAACCCTGAACCAAGATCACTGAATTTTGTTTTTTCTGTGTCTTTGGGAAATT
TTTTTTTTCTCTGTAGGGTTTTTAAGAGGTTTTCGGGGTTTTGTGTGTAAATATTCTATTTTATTCTTGGGGGA
TCAAACCTTAGGAAAAGGATATCTATATATCTATATAGCTATATATTTGTGTTCCTTCAGGGAAACTGGTCTTGA
AAAAGCAAGAAAAAAGCAAAAAA

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FIGURE 5105

MKLQAVMETLLQRQQRARQELARQQLPPDPFAAPPGRARAAPDEDREPESARMQRAQMAALAAMRAAAAGLGHP
ASPGGSEDGPPGSEEEEDAAREGTPGSPGRGREGPGEEHFEDMASDEDMKPKWEEEMEEDLGEDEEEEEEEDYEDE
EEEEDEEGLGPPGPASLGTTALFPRKAQPPQAFRGDGVPRVLGGQERPGPGPAHPGGAAHVAPQLQPPDHGDWTY
EEQFKQLYELDGDPKRKEFLDDLFSFMQKRGTVPVNRIPIMAKQVLDLFLMLYVLVTEKGGLVEVINKKLWREITKG
LNLPTSITSAFTLRTQYMKYLYPYECEKRGLSNPNELQAAIDSNRREGRRQSFGGSLFAYSPGGAHGMLSSPKL
PVSSLGLAASTNGSSITPAPKIKKEEDSAIPITVPGRLPVSLAGHPVVAQAAAVQAAAAQAAVAAQAAALEQLR
EKLESAEPPEKKMALVADEQQRLMQRALQQNFLAMAAQLPMSIRINSQASESRQDSAVNLTGTNGSNSISMSVEI
NGIMYTGVLFAQPPAPTPTSAPNKGSGGGGGSSSNAGGRGGNTGTSGGQAGPAGLSTPSTSTSNNSLP

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FIGURE 5106

GGCAAGATGGCGGCGCCCATGGAGGTGGCCGTGTGTACGGACTCGGCGGCCCCGATGTGGAGCTGCATCGTGTGG
GAACTTCACTCGGGCGCCAACCTGCTCACCTACCGCGGCGGCCAGGCGGGACCCCGCGGCCTGGCGCTGCTCAAT
GGCGAGTATCTGCTGGCGGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGGAAGGACCAGCTC
CAGCAGAAGATCATGTGCCCCGGGCCTGTACCTGTCTGACTGCATCACCCAATGGTCTCTACGTCCTGGCAGGA
GTTGCAGAAAGCATCCACCTGTGGGAGGTCTCCACCGGGAACCTTCTGGTCATCCTGAGTCGACACTACCAGGAC
GTCTCCTGCCTTCAGTTCACAGGGGACAGCAGCCACTTCATCTCAGGGGGCAAGGACTGCCTGGTGCTGGTTTGG
AGCCTCTGCAGCGTGCTGCAGGCCGACCCCTCCAGGATTCCGGCGCCCAGGCACGTCTGGTCTCACCACGCGCTC
CCCATCACGGACCTGCACTGCGGCTTTGGGGGCCCCCTGGCCCCGGGTGGCCACCTCCTCACTGGACCAGACGGTG
AAGCTATGGGAGGTCTCCTCGGGGGAGCTGCTGCTCTCCGTCTCTTTGACGTGTCCATCATGGCAGTGACCATG
GACCTGGCTGAGCACCATATGTTCTGCGGGGGCAGTGAGGGCTCCATCTTCCAGGTGACCTCTTCACCTGGCCCC
GGACAGAGGGAGAGGAGCTTCCACCCAGAGCAGGACGCCGGAAGGTCTTCAAAGGGCACAGGAACCAGGTGACT
TGCTGTCACTGTCCACTGACGGCAGCGTGCTGCTCTCAGGCTCCACGACGAGACCGTGCGCCTCTGGGACGTG
CAGAGCAAGCAGTGTCATCCGGACGGTGGCCCTCAAAGGCCCAAGTCACCAATGCCGCCATCCTGCTGGCGCCCGTC
AGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCGCTGCCCCACTTCAACAAGCACCTGCTGGGCGCCGAGCAC
GGGGACGAGCCGCGCCACGGGGGCTCACTCTGCGCCTGGGCCTCCACCAGCAGGGCTCGGAGCCCAGCTACCTG
GACCGCACGGAGCAGCTGCAGGCCGTCTGTGTCAGCACCATGGAGAAGAGCGTGCTCGGCGGCCAGGACCAGCTG
CGCGTCCGTGTGACGGAGCTGGAGGACGAGGTGCGCAACCTGCGCAAGATCAATCGGGACCTGTTGACTTCTCC
ACGCGCTTCATCACGCGGCCGCGCCAAGTGAAGGCCCGGAGACCCCGGCCCGAGGCGCCAGGCCCTGAGCCCCATGC
CTCCCAGCAACCAGGGCCCGCGGGTGTGGCCCCCACCAGCCCAGGCCTGGACTCTCCTCAGTTCTGTGTCGTGTT
CGGGTTTTTCTCTGTGACTGGGCCGTCTTGGTGTCTCGTGGCACGCGTCACAGTGGTGCTAGTCTGTTTTTAAC
AAAAGAGGATGAAAAGCC

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FIGURE 5107

MAAPMEVAVCTDSAAPMWSCIVWELHSGANLLTYRGGQAGPRGLALLNGEYLLAAQLGKNYISAWELQRKDQLQQ
KIMCPGPVTCLTASPNGLYVLAVAGVAESIHLWEVSTGNLLVILSRHYQDVSCLOFTGDSSHFISGGKDCLVLVWSL
CSVLQADPSRIPAPRHVWSSHLPITDLHCGFGGPLARVATSSLDQTVKLWEVSSGELLSVLFVDSIMAVTMDL
AEHHMFCCGSEGSIFQVDLFTWPGQRETSFHPEQDAGKVFKGHRNQVTCLSVSTDGSLVSGSHDETIVRLWDVQS
KQCIRTVALKGPVTNAAILLAPVSMSSDFRPSLPLPHFNKHLGAEHGDEPRHGGLTLRLGLHQQGSEPSYLDL
TEQLQAVLCSTMEKSVLGGQDQLRVRVTELEDEVRLRKINRDLDFDFSTRFITRPAK

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FIGURE 5108

ATGAGCTCCACGCAGTTCAACAAGGGCCCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGGCTCCCGCGAAT
CTTGGGGAGCACCCAGGTCTGAGATCTGGGGGACGAGTGACCCATTCCCCCCCCAACATCTAGGGGTAGTTGGG
TCTGACTTCGTCCCCTCGCCATGGCCCCAGGACCCCCACGTGTCCTTACAGCTGACTTCTGCAGGGGAAACTGCC
TCTGCACGCTCTGAGGGCACCGGCCCTGCCAGCCCCAACAGCCACCTGCCCGGCGGCACCTCCAGGGCCGGCAGAC
TGGAGGGAGAATTCCTGCTTCCCCGCTGGGCCATCTGCACCCTGCATTCTAGAGCCCCCGTGCAGTGGGGTGG
GCACCCTGCCGCACCCTGCATACAGCCGGCTAA

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FIGURE 5109

ACCAGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGGCCTCT
CCATCGGCCCGACTTCCAGAAGGGCCTGAAGGATGGAACCTATCTTATGCACACTCATGAACAAGCTACAGCCGG
GCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACTTCATCAAGGCCA
TGGTCAGCTACGGCATGAACCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGG
TGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGACATTGGCGTCA
AGTACTCGGAGAAGCAGGAGCGGAATTTTCGACGATGCCACCATGAAGGCTGGCCAGTGCGTCATCGGGCTGCAGA
TGGGCACCAACAAATGCGCCAGCCAGTCGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGA
ACCATATCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGG
GCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACTCCTCCA
TGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGGCGGGCAGATATATG
ACCCCAAGTACTGCCCGCAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCGGACCCGGGGG
AGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTGAGGCTCCCAGCAGCTCTCTCCCCACATC
GTCTGCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTTCATCTTTTTTTTTTTTTCTTAACCCGTTTCAGTGCTGC
CAGTCAACCAAGGGTCTGTGAGTGTGAGCGTGGGATCAGGCAGCAGAGCTTTTTTCCCTTTGCTTGATCCTTC
GCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCCAATACGTGTAGGGCGAGGGTCCCTGC
TGGCACATTCAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCCGACGGTTTTCTGCTTGCC
TCGCCTCTTCCCCCTTTTGTGAGCTGAGCAGTTTGTGGTTTTCTATGCCCGCAAGTTTCAGGAAGTATTACAAAA
GAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGTCCCTGGGAAA
GGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTGACTGGATTTCCTAGGACCTTCAGACCAACAGA
CTTCAGACCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGAGGGCCGTACAAGGAAGTGAAATTCGAGTTG
TTGGGGCTAAGCCTGACCCCTCTCCATGCTCCCCGCCCCAACCCACTCTGGCCTCAGTAGATTTTTTTTTTCAGT
TGTGGTTGTTGCCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCGGGCTCAAGCGA
TTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCGGCTAATTTTTGTATTTTAG
TAGAGATGGGGTTTCCCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCGCCCGCTCCGC
CTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGCCAGCCCCTCAGTAGGTTTAAAGGAGCCCCAGCCC
TCCTCCCTTCTGGGCCCCAGCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCCGCCAAGTACTGCACAGG
GACCCCCCACCAGGGGACCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAACGCAATAAAACCTCTG
TTGTACGAAG

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FIGURE 5110

GGCGGCGGCGGCGGAGGCTGCCATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAATCCGCAAGACCATCAT
GCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCA
ATCTGGGGACAAGCCGAGTGAGGGGCGGCCGCGCGCACGGACCTCACCGTGCTGGTGGCCCAACGATGACCC
CACCGACCAGATGTTTGTGTTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG
CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGCAGCAGGGCATGACACCCTCCGCCAAGCAGTCCCT
GGTCGACATGGCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCACGGAGCACGA
GCTAGTCCCTGAGCACGTTCGTATGACCAAGGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAA
CCAGCTGCCCAGGATCCAGGCGGGGACCCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT
CATCCGGCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGCAGTAGCTACCGCCTGACAGCCCCTA
GAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCTGCCCTGCCAGAATCCGGCCCCACAGCTC
TCACGGCTGCTGCTCCTCTGGACTCCCCAAGGCAGGTGGCTCCACCCACGTTCTCCCGTCTGGGGTGAGGCTT
CCTGTGGCCCAGCCGCCCCATTACCTGTGGATTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCCAGAG
GGAGGTCACCTGGGGGCAGCTGGTGC CGGGTCTTCACCCAGACCACGCTGGGTCCCCTCTGTTGGGGGTTTGGGG
TCCGGGTCTCCACAGCCACTGCTTCCTCCTGGGCCCTCGGCCTTCCACCCCTCGTCTTCCCTCCCTCGGGGGC
CCTGATGCGTGGCGGCCCCCGCCGCGCTCGGCTCTTACTCCATTACAGCCATGCACGCGCTCAAGCCACCAG
GGTGCAGATGCCAGCTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA
GCAAATAAATTTGCTTGATACAG

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FIGURE 5111

MDDEEETYRLWKIRKTIMQLCHDRGYLVTQDELDQTLEEFKAQSGDKPSEGRPRRTDLTVLVAHNDPTDQMFVF
FPEEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYILEQFLQQELLINITEHELVPHEVV
MTKEEVTPELLARYKLRENQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ

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FIGURE 5112

CGGGGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCG
CCGCGATGAGCCTCGGCCGCCCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCC
TGGCCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACA
TCGACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAG
GCAAGACCGAAGTAACTACACTCAGCTCGTCGACCTGCACGCCGATACGCTGAGTGTGGTTTGGCGATCCTGG
CCTTCCCGTGTAACCAAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTCGCCGCGGGCTACA
ACGTCAAATTCGATATGTTTCAGCAAGATCTGCGTGAACGGGGACGACGCCCACCCGCTGTGGAAGTGGATGAAGA
TCCAACCCAAAGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAACTTCACCAAGTTCCTCATCGACAAGAACG
GCTGCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTTCTAGC
TCCACAAGTGTGTGGCCCCGCCGAGCCCCTGCCACGCCCTTGGAGCCTTCCACCGGCACTCATGACGGCCTGC
CTGCAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGCACCCCGCCGGAGGAAGGTCCCATGGCCTGCTGG
GCTTGGCTCGGCGCCCCCACCCTGGCTACCTTGTGGGAATAAACAGACAAATTAGAAAAAAAAAAAAAAAAA

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FIGURE 5113A

GCCCGAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCGGCCG
GACCCGGGCGCGAGATCATGATGCTGCCGCCACCGCGCCACCACGGAGCGAGAAGCCAGATAGACGCCCGGC
GGCCCCGGGTCTTGAGTCCCGCCGCTGCTGCCCGGCCGAGGACCCACCCGCTGCCGCGCGATGCTTGACG
TGGGGCCCGCCATGGACAGGGATTACCCGCAGCATGAACCCCCGCGGCGGGCAGCCTCCTGTACAGCCCGCCG
CCCTGCAGAGCGCCATGCTGCACTGCCCTACTGGAACACCTTCTCGCTGCCGCATACCTGCCTTCTCCAGCG
ACAGCCGCCCGTTTCATGAGCTCCGCTCCTTCCTCGGCAGCCAGCCTGCCAGACACCAGCTATGCCCGCGTGG
CCACCGCTCCAGCTTGCCACCAAGACCTGCGACTTTGCTCAGGACTCTCCTATTTTGAGGACTTCTCCAACA
TCTCATCTTCTCCTCGTCCGTGGACTCCCTGTGCGACATCGTGGACACGCCGACTTCTGCCGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCTGCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGAGGCTTCGAGGACTTTCTGCCCTCCACAGCACCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCACCCCCAGACATCACCTACACCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG
CCATCACCTACGCTGCCAGCAACACGAGGTCTGCTCCCCAGCGGCAGCGCGCGGGCTTTCTCATCGCGATG
GGGCGCGCGTGGGCAAGGCCGACGGTGGCCGGAGTCATCTGGAGAACCACCTGCGCGGCCGGAAGAAAGCAT
TGTGGTTACGCTCTCCAACGACCTCAAGTACGATGCGGAGCGGACCTGCGGGACATCGAAGCCACGGGCATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCTCTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGCGGCCAGCACCGCACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTCGAGGGCGTCATCGTGTTCGACGAGTGTCAAAAGCCAAAGATGCCGCTCCACCAAGATGGGCAAGGCTG
TGCTAGACCTGCAGAACAGCTGCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCTTCCGGAACCTTGAGGAGTCTCTGCACG
CCATCGAGAAGAGGGGCTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTGACGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCCGCTGGCCCCAGCCTTCGAGTGGCTCTACA
ACCGCGCGGCCCTGCTGTGGGCGGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCTGGAGTCGC
GCAAGTCCCTGTGGGGCAGTTCTGGTCCGCACACACGCGCTTCTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCGAGAGGAGCTGGCGCGAGACAAGTGGTGGTTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCTGCTCGGCCGCTGAAGGCGTGT
TCCTGTGCTAATTGAGAAGCACTTTCGCTCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCGCTGGCGTGGAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCTGGCTGGACAGCGACTTCAACTCTCCCCGAGTCCCTGGTGGATGACGACG
TTGTATCGTTGATGACGTGGGCTCCCCAGTGACGACCGGGGACCCCTGTGCCTCCTGCAGAGAGACCCGCATG
GCCCCGGGTCTTGAGCGGGTGGAGCGGTGAAGCAGGATCTGCTGGACAAAGTGGCGCGGCTGGCCCGGGAAC
TGCCAGTCAACACCTGGACGAGCTCATCGACAGCTGGGCGGCCCCAGCGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCTGGTGTCCAGGCCGACGGGACGGTGGCCTTCGAGTCGCGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAGCAGCGCTTCATGACGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCGGTGTCCAGAACCAGCGGCGCGCGTGCACATGACCTTGGAGCTGCCGT
GGAGCGCCGACCGGCCATCCAGCAGTTGGCGCGACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGAGCTGGCCGGGGAGCGCCGTTCCGCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCC
TGACCCACGAGACCGCGCGCCACGGAGTCCCGTGACCTCAGCAAGTACAACCTTGAGAACAAGTATGGCACCC
GGGCCCTGCACTGTGTCTCACCACCATCCTGAGCCAGACTGAGAACAAGTGCCTGTGCCCCAGGGATACCTG
GAGGGTCCCCACCTTCTTCGGGACATGAAGCAGGGCCTGCTGTCTGTGGGCAATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATCACCAGTTCTGAACCGCATCCTGGGGCTGGAGGTGCACA
AGCAGAACGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAAT
ACGACATGGGCATCCTGGACCTTGTCTCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCTGGCTC
CCGGGCACCCGACGAGCGGGCAGGTGGTCTTCTACAAGATCAGCGTGGACCGCGCCTGAAGTGGGAGGACGCCT
TTGCCAAGTCTGTGGCGTGACGGGCCCCATGACGGCTTCTACCTCTCTACAGGTCCGCGGTAAACAAGCCCA
GCTGCCTGTGTGGCGGAGCAGAACCGCGGCCAGTTCTTCACGGTGTACAAGCCCAACATCGGCCGCGAGGCCAGC
TGGAGGCCCTGGACAGCCTCCGCCGCAAGTTCACCGGGTCACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGT

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FIGURE 5113B

GCTACGCTTTGTGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTGATGGCCGACGTCAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCGCCCTGGGCTGCCCCGCCCCGCCCCGCGCCCGCTGGCGCTGCCTTGCGGCCCCG
GAGAGGTGCTGGACCTACCTACAGCCCCCGGCCGAGGCCTTCCCGCCGCCCCGCACTTCTCTTTCCCGGCGC
CGCTGTCCCTGGACGCCGCCCCGGCGTCTGTCCGCTGGGCACCCCCGACGCCAGGCCGACCCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGCGCGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCCACCCTTCCCCGGCGCCCAGGCTCCTCTCTGACACGCCTTTAGGCGAAACATGCCCAAGACACAG
GGACCGTTTCTCCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCAGTGCCTTCAGCGCCCGACCCGGGCCCCCACCTGGTCAGCCCTGGCGGGGCCCACTCAGGACAG
CTGGGGGGCCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCCAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCAAACCCTTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCAGGTGCTCAGGGCCCCGCGTCTCGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCCTCACCTCTCCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

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FIGURE 5114

CCCAGGGTCCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCAGTTCTGAGGCCCGGGTCCCACTGGAAC
CGCGTCTGAGCCGCGTCCCGGACCCCGGTGCCCGCCGGTCCGCAGACCCTGCACCGGGCTTGACTCGCAGCC
GGGACTGACGTGTAGAACAATCGTTTCTGTTGGAAGAAGGGTTTTTCCCTTCCTTTTGGGGTTTTTGTGCTTT
TTTTTTTCTTTTTCTTTGTAAAAATTTTGAGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACT
CAGGGCTGGCGCGGGACTCCAGGACCCTGGGTCCAGCATGGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCA
CGGAGGGCGAGCTGATGTGCGTGGGTATGGACACGTTTCATCCACCGCATCGACTCCACCGAGGTCTATACCAGC
CGCGCCGCAAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGG
TGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAGTTGCGAAGGA
TCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCAACTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGC
TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAAATATATATGTTGATGGAGTACTGCGTGTGTGGCATGCAGG
AAATGCTGGACAGCGTGCCGGAGAAGCGTTTTCCAGTGTGCCAGGCCACGGGTACTTCTGTCTAGCTGATTGACG
GCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAACCTGCTGCTCACCACCGGTG
GCACCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTTCGCGCGGACGACACCTGCCGGACCA
GCCAGGGCTCCCGGCTTTCCAGCCGCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACA
TCTGGTCCGCTGGGGTACCCCTCTACAACATCACCACGGGTCTGTACCCCTTCGAAGGGGACAACATCTACAAGT
TGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAG
GGATGCTTGAGTACGAACCGGCCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAAC
ATCCTCCGGCTGAAGCACCAGTGCCCATCCCACCGAGCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGG
TGCCGTACTTGAGGACCTGCACGGCGCGGACGAGGACGAGGACCTTTCGACATCGAGGATGACATCATCTACA
CTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGAGGAGGCCAGTCACAATGGACAGCGCCGGGGCCTCCCCA
AGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGCACCAAAATCCAGGGCGGAGGGCCGGGCCCCCAACC
CTGCCCGCAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGTGCGCCTGCAAGCAGCAGTGAGGCTGGCCGC
CTGCAGCCCGTGTCCAGGAGCCCCGCCAGGTGCCCGCGCCAGGCCCTCAGTCTTCTGCGCGTTCCGCCCGCCT
CCCGGAGAGGTGGCCGCCATGCTTCTGTGCCGACCACGCCCCAGGACCTCCGGAGCGCCCTGCAGGGCCGGGCAG
GGGGACAGCAGGGACCGGGCGCAGCCCTCCCCCTCGGCCGCCCGGCAGTGACGCGGCTTGTTGACTTCGCAGC
CCCGGGCGGAGCCTTCCCGGGCGGGCGTGGGAGGAGGGAGGCGGCCTCCATGCACTTTATGTGGAGACTACTGGC
CCCGCCCGTGGCCTCGTGCTCCGCAGGGCGCCAGCGCCGTCCGGCGGCCCCGCCGAGACCAGCTGGCGGGTGT
GGAGACCAGGCTCCTGACCCGCCATGCATGCAGCGCCACCTGGAAGCCGCGCGGCCGCTTTGGTTTTTTGTTTG
GTTGGTTCCATTTTCTTTTTTTCTTTTTTTTTTAAGAAAAATAAAAGGTGGATTG

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FIGURE 5115

GTCTCTCTCGCCCTCCAGGCCGCCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCCGCCCCG
CCGCTGCCATGCTGCCCCGCCGCGCTGCTCCGCCGCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCGTGCCTATG
CCGAGGCCCGCCGCCCGGGCTGCCGCCTCTGGCCCCAACCAGATGTCCTTCACCTTCGCCTCTCCACGCAGG
TGTTCCTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCC
ACGTGCCCCACGCTGCAGGTCTGCGGCCGGGGCTGGTCTGGTGCATGCAGAGGACGGCACCACCTCCAAATACT
TTGTGAGCAGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTGACGCTGG
ACATGTTGGACCTGGGGGCAGCCAAGGCAAACCTTGGAGAAGGCCCAGGCGGAGCTGGTGGGGACAGCTGACGAGG
CCACGCGGGCAGAGATCCAGATCCGAATCAGGGCCAACGAGGCCCTGGTGAAGGCCCTGGAGTAGGCGGTGCGTA
CCCGGTGTCCCGAGGCCCGGCCAGGGGCTGGGCAGGGATGCCAGGTGGGCCCAGCCAGCTCCTGGGGTCCCGGCC
ACCTGGGGAAGCCGCGCTGCCAAGGAGGCCACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCCCAGGCCCTGCC
TGTGTTGAAAGCTCTGGGGACTGGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGGGGCT
CTCCTTCGCCTCTCAAGATCCCCCAGCCTGACGGGCCGCTTACCATCCCCCTGCCCCTGCAGAGCCAGCCGCC
AAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAACTGCCCCAGCCCCGCCCATTAAGACCCGGAAGCC
TGAAAAAAAAAAAAAAAAA

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FIGURE 5116

MLPAALLRRPGLGRLVRHARAYAEAAAAPAAASGPNQMSFTFASPTQVFFNGANVRQVDVPTLTGAFGILAAHVP
TLQVLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSVQLLAEAEVTLDMLDLGAAKANLEKAQAEVLVGTADEATR
AEIQIRIEANEALVKALE

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FIGURE 5117

CAGCAGCGGGCGGCCGCGCGTGACATCGGCACCATCCTGCAGATCCTGAACGACCTCCTGAGCGCCACCCGGCA
CTACCAGGGCATGCCCCCTTCGCTGGCCAGCTCCGCTGCCACGCCAGTGCTCCCCGGCCTCACCGCCCCCGA
CCTGGCCCCCAGAATACTCCTGCGAGAAGCTCACGGCTGCCCCCTCAGCCTCCCTGCTGCAGGGCCAGAGCCA
GATCCGCATGTGCAAGCCCCCGGGGGACCGGCTTCGGCAGACAGAAAACCGCGCCACGCGCTGCAAGGTGGAACG
GCTGCAGCTGCTTCTGAGCAGAAAACGGCTCCGTAGAAAGGCCCGCGGGACGCGCGGGGTCCGTACCACTGGTC
ACCCAGCCGCAAGGCCGCGCCGAGCGACAGCAGTAGCAGCGGGGGCGCGGCAGCCCCAGCGAGGCCTCCGGCTT
GGGCCTCGACTTCGAGGACTCCGTGTGGAAGCCAGAAGTCAACCTGACATCAAGTCAGAGTTCGTGGTGGCTTA
GGATCTTCGGATCGGCCACCTCGCCCCCTCGACCCAGCCAGGGCGGGCGGGGACTCCGAGAGCCCCGGAGAGA
ACGTGGCCAGCCCTGGAGGGCAGGCGGCCACTCCCCAGCCAGAAGTCTTTTTTCTTTTCTTTTCTTTTATT
TTTTTTCTTTTTTTTAAAAAGTTCTGACCGTGGTTTCTGGACTCTTCATGGGCTTTGCTTCTACCTCCTTAC
CCTTCACCTCCTGCCCTCCTCTTCTCCTCCTCCTCCTCCTCCTCGTCTGTCTCCTTTCACCTCTGCCAGGTCCGT
CCTCCCTGCCAACCTTCCCCAGCTCCAATATGTAGCAGTCTCTCTGGATGGCGGAGAGTGAAGGAGACGGAGAAA
CGCGCCCCATCCCTTCCGCCGCTCCTTTCCCCCCCCGACCTATTAGGTTTTAAGTCAAAAATGTGCATATGTC
ATTATGCACTTTACAGATGAGGGGAGGGGCGCAGTGGCAGAACCCACCCACCCCCAGTGCAGACTTCGGGG
TCTCCACCCAGGCCAGCAGCGCCCACTGGGTACAGCAAGCCAACAGGTACAGAAAGCCAACGAGGGGACTGTT
TCTCTTCCACTCCTATCCTCTTTTCTTGAICTTTTTTTTGCATTTTCTTTCATTCTTTTAAACAGGAGAGCAAAG
CTGTTTTAGCAGAGGCTGGGGCTGAGGTCCCCATGGGGTTTGGGTGCAGGGGCATGGCACCTTTCTGTGGGA
AGGGAGAGGGGAATAACCCCCCAGCCTGCCCTCCGCCCGCCCCAGCGCGGACTGTGCTGTTTCTCCTCGCCC
CCACTCCCGTGTCTTCTGACCTCCTGCCTGAGTTGGGGTATTTATAGACTATTAATTTTCTGACTGAGCCAATA
GTGGTTGGGGAACTCTTGAAAAAGGGGAGAGAATGGCTGGGTGCTGGGGAGTTCCCCCTCCGAGCCCTCCTTCC
CGGCCAACCTGAGGGATGTGGATTGGGACTGTCTGGGGGCCCTCCTGCAGCGAGGATGGGAGGGGGTGTGA
GCTGTGAATCCCCTGGGCAGGGGGCGACAACCTCCGTGTAGCATTAACCCCGTGGCGGGGTCCGCTGCTGGTCTA
ATTGGACCCCTGCCTCTCAGTCCCCCTGCCCTAGGGGTGTCTGTCTCCAGAGGGGAGGGACAAATCCCCTACT
GGGGCCATTCAATGGGGTAGTTTTTGGATTTTTTCCCCACTCACTTTTTATTTTTTAATGATAATGGAGATGT
CTGGACCCCTCCTCACCCACCTGTGCTGCTTGTCTGGCTCTGCCTGTCCCCACCGTTGTTCTCGTAGGTGAA
CCCCAGGTCTCAACTCCCCCCTTTATGTGTTGAAAGTTAATGGTTTCAGATGTGAACATCACGTGTTATAACT
GTAGCGCTGTAAATTTTTTGTGGGAGGGTGGGCAGGGAGGGGTCCAGAGGGTAGAGCTCAAGGATTTTGGGT
TTGTTTTGTTTTTCATTTTTCCAAAAAAGAAAAAATAGAAAAAAGGAGTAAAGGGGCGGGTTTGT
TTTTGAAGAACTGTCTGGATACCTATTTAATGTGTGTTCTGTTTTGTTTTTAAAGATTTTTAAATAACGTCT
GTGCCTCCACTGGTTGAGGGTGGAACTCCAGGCAGGAACCGGCTCGCCACCTCTGCCCGGTAAGGGCTGCCCA
AGAAAGCATTACCCGCCCTCGGGGGGTGGGGCTGTGGGGTCCCGGCACCTGGCGTGAGTTTCATGTATGAAAC
ATAAATTGAAAAAATAAAAAACCTACACGAGCACCGTGATTTCAAGTAATAAACAGAAAATGAAACAC

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FIGURE 5118

MSLAIHSTTGTRYDLAVPPDETVEGLRKRLSQRLKVPKERLALLHKDTRLSSGKLQEFVGDGSKLTLVPTVEAG
LMSQASRPEQSVMQALESLETETQPPAAPGPGRAGGGGFRKYRFILFKRPWHRQGPQSPERGGERPQVSDFLSGRS
PLTLALRVGDHMMFVQLQLAAQHAPLQHRHVLAAAAAAAARGDPSIASPVSSPCRPFVSSAARVPPVPTSPSPAS
PSPITAGSFRSHAASTTCPEQMDCSPTASSASPGASTTSTPGASPAPRSRKPGAVIESFVNHAPGVFSGTFSGT
LHPNCQDSSGRPRRDIGTILQILNDLLSATRHYQGMPPSLAQLRCHAQCSASPAPDLAPRTTSCEKLTAAPSAS
LLQGQSQIRMCKPPGDRLRQTENRATRCKVERLQLLLQQKRLRRKARRDARGPYHWSPSRKAGRSDSSSSGGGGS
PSEASGLGLDFEDSVWKPEVNPDIKSEFVVA

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FIGURE 5119

GAGGCTCGGGTCGTTGTGGTGCGCTGTCTTCCCGCTTGCGTCAGGGACCTGCCCGACTCAGTGGCCGCCATGGCA
TCAGATGAAGGCAAACCTTTTGTGGAGGGCTGAGTTTTGACACCAATGAGCAGTCGCTGGAGCAGGTCTTCTCA
AAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACAGGGAGACCCAGAGATCTCGGGGATTGGGTTTGTC
ACCTTTGAGAACATTGACGACGCTAAGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATC
CGAGTAGACCAGGCAGGCAAGTCGTCAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCCGGGGC
TTCTTCCGTGGGGGCCGAGGACGGGGCCGTGGGTTCTCTAGAGGAGGAGGGGACCGAGGCTATGGGGGAACCGG
TTCGAGTCCAGGAGTGGGGGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGGAGTCAGAGTGGTGGCTACAGT
GACCGGAGCTCGGGCGGGTCCTACAGAGACAGTTATGACAGTTACGCTACACACAACGAGTAAAAACCCCTTCTG
CTCAAGATCGTCCTTCCAATGGCTGTGTGTTTAAAGATTGTGGGAGCTTCGCTGAACGTTAATGTGTAGTAAATG
CACCTCCTTGTATTCCCACTTTCGTAGTCATTTTCGGTTCGTATCTTGTCAAACCCAGCCTGACCGCTTCTGACGC
CGGGATGGCCCTCGTTACTAGACTTTTCTTTTAAAGGAAGTGCTGTTTTTTTTTGAGGGTTTTCAAAACATTTTGA
AAAGCATTTACTTTTTTGACCACGAGCCATGAGTTTTCAAAAAAATCGGGGGTTGTGTGGGTTTTTGGTTTTTGT
TTTAGTTTTTGGTTGCGTTGCCTTTTTTTTTTAAAGTGGGTTGGCCCCATGAAGTGGGTGCCCCACTCACTTCTC
TGAGATCGAACGGACTGTGAATCCGCTCTTGTGCGGAAGCTGAGCAAGCTGTGGCTTTTTTCCAACTCCGTGTGA
CGTTTTCTGAGTGTAGTGTGGTAGGACCCCGCGGGTGTGGCAGCAACTGCCCTGGAGCCCCAGCCCTGCGTCCA
TCTGTGCTGTGCGCCCCACAGTAGACGTGCAGACGTCCCTGAGAGGTTCTTGAAGATGTTTATTTATATTGTCCT
TTTTTACTGGAAGACGTACGCATACTCCATCGATGTTGTATTGTCAGTGGCTGAGGAATTCCTGTACGCAGTTTT
CTTGGCTTTACGAAGCCGATTAAAAGACCGTGTGAAATG

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FIGURE 5120

CCAAGATGGCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCCCGG
CTGTGCAGGCACGAGGTGTCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCCAAAGG
CCAGAGCCGTGGCTCCCAAACCCAGCAGCCGGGGCGAGTATGTGGTGGCCAAGCTGGATGACCTCGTCAACTGGG
CCCGCCGGAGTTCTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGATGCACATGGCAGCAC
CCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCGCGCCAGTCCGACGTCATGATCGTGGCCG
GCACACTCACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAGATGCCGGAGCCGCGCTACGTGGTCT
CCATGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCTACTCGGTGGTGAGGGGCTGCGACCGCATCG
TGCCCGTGGACATCTACATCCCAGGCTGCCCACCTACGGCCGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGA
GGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGGTACCGCAGGTAGCGCCGCCGCCGCCGCCGCCGAGCCTGT
CGCCGTCCTGTCCCCAGCCTGCTTGTGTCCCGTGAGGTTGTCAATAAACCTGCCCTCGGGCTGCCGCCAAAAAAA
AA

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FIGURE 5121

MAVLSAPGLRGFRILGLRSSVGPAVQARGVHQSVATDGPSSSTQPALPKARAVAPKPSSRGEYVVAKLDDLNVNWAR
RSSLWPMTFGLACCAVEMMHMAAPRYDMDRFGVVFRASPRQSDVMIVAGTLTNKMAPALRKVYDQMPEPRYVSM
GSCANGGGYYHYSYSVVRGCDRIVPVDIYIPGCPPTAEALLYGILQLQRKIKRERRLQIWYRR

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FIGURE 5122

CCCCGGCCCAAGCCCCTGCAGGGAGCGGGCCCCGGCGCGCGATCGAGGTCGGGTGCGCGTCCAGCCTGCA
GCATGAGCGCCCCCAGCGCGACCCCATCTTCGCGCCCGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA
TGCACGCGCTGGCCGCCCGCCCTCCTCCAAAGGGGGCCGGGTCTTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCTTGAAAGGCCTGTGGGAGGATGTGGACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCGGGGGGCGTCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCGCGCTGCTGGAGG
CCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACCGGCCGACTGCCGCTACTACGCCT
TCCCACAGATGATACGCCCCCTGGTGACCAAAGGCTGAGCCCCCACC CGCCCCGGCCACACCCATGCCCTCCTC
CGTGCCCTTCTTGCCGGGAGTCCAGGGTGTGCGACCAGCCCTGGGCTGATCCCAGCTGTGTGTACACAGAAGCTT
TCCCGGCTTCTGTGAGGGGTCCCACCAGCCAGGGCTGATCCCAGCTGTGTGTACACAGCAGCTTTCCCAGCT
TCTCTGTGAGGGTCACTGCTGCCACTGCAGGGTCCCTGAGGTGAAGTAAACGCCGGCGCTGGGCTTGGCCAGTC
GGCAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5123

MSAPSATPIFAPGENCSPA WGAAPAAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVFGMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDTYPLSEETWHTHQFN
FIKNHAFRLKPGGVLTYCNLT SWGELMKS KYS DITIMFEETQVPALLEAGFRRENIRTEVMALVPPADCRYAF
PQMITPLVTKG

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FIGURE 5124

CCCCGGCCACAAAGCCCCCTGCAGGGAGCGGGCCCCGGGCGGCGCGCATCGAGGTCGGGTGCGCGTCCAGCCTGCA
GCATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA
TGCACGCGCTGGCCGCCGCCCTCCTCCAAAAGGGGCGGGTCCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCAATCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCCTTTCGCCTGCTGAAGCCGGGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGTGCGCCACCTGAAGTTCCCCATGGGT
CTCCAGGAAGTGACCTTGGATGGGGGTGGGAAGGGGCTGCTGGAGCCACCTTGCTACCTGGGGAGGGTCCCTTCC
TGACCCCTGGGTGGGCTGGACTGTGCTGGTTCAATTAAGAAATCAAAGTCCTTTGCCTGGCGCAGTGGCTGCCAG
GAGCAGTGGCTCAGGTCTATAATCCCAGCACTGTGGAAGGCCGAGGTGGGCAGATTGCTTGAGCCTAGGAGTTCA
AGACCAGCCTGGGCTACAGAGCAAGACCTCATCTTCTCTAAAAAATAACAAAAA

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FIGURE 5125

MSAPSATPIFAPGENCSPA WGAAPAAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVGFMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDTYPLSEETWHTHQFN
FIKNHAFRLKPGGVLTTCNLTSWGELMKSYS DITIMFEVRPPEVPHGSPGSDLGWGWEGAAGATLLPGEGPFL
TPWVGWTVLVHLEIKVLCLAQWLPGAVAQVYNPSTVEGRGGQIA

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FIGURE 5126

CTGCGCAGGCGCGGACCAAAGCGATCTCTTCTGAGGATCCGGCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCG
GACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTCGACCAGCTGCTGGACATGTCCTACGAGCAGCTGATGCA
GCTGTACAGTGCGCGCCAGCGGCGGCGGCTGAACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCT
GCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCAT
CCTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTGGAGATCAAGCCCGA
GATGATCGGCCACTACCTGGGCGAGTTCCTCATCACCTACAAGCCCGTAAAGCATGGCCGGCCCGGCATCGGGGC
CACCCACTCCTCCCGCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

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FIGURE 5127

MAVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEKPEV
VKTHLRDMIILPEMVGSMVGVYNGKTFNQVEIKPEMIGHYLGEFSITYKPVKHGRPGIGATHSSRFIPLK

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FIGURE 5128

AGCATGCAGTTCCGGTCACCTGAGGGTGCTGGGGCCGTGGTTTGAGCTTCATGGGCTCAGGTCCATGGCCGTTGAG
TGTTGGCGAAACTGAGGCACGCTGTGCGGGGACGGGGGGCGCTCACAGAAGGTAGGGGGCCTCCTGTGCCTTCAT
CCAGGCACTGCCCCGGCCTTTCCACCCTGTTGCTAAAGCAGGTGATGACAGAGGTGATTTGATCAGCCCAGACCC
GTGCGGCACGTGGAGCCTTCGTCCGTGGGAGACCACACTGCCGAGGGGCAGGCCAGAGCCGAGGGGCCCCGTGACG
CTTCTCTGAGTGACCTGAAGTCGGTGCTGCTTCAGCCCTGCTGCACTGGGCTTGCCATACGTGGGGGAGCAGGGA
GCCATACGTAGTTTTCTGCTGAATGTGGGAGTGACCAAGGACGTCAATGCCACCTCTCACCTTCGCCACCCCTGCC
TCCCTAAGTGTGTGCTCCAGGAGGTTGCACGGCCCTGGAGAGGTTTTCGGTGGCGGGCTTGTTCGTCTCTGGC
TTCCAGAGACAGCAGGAATGAGAGCCAGGCCAGCTCAGTGGAGTCCATCCCGGTGGGTGCCACGGCTTTTGACAGG
AATGGAAGCCCCGCCCCAGGAGGGCCACTGCTGGCGAGGCTTGAGCTCTTCTGTGACCCGATCCCCCTGGTCA
CACGCTTTGCTAAGGCGGGTAGCCTAGAGCTGGAAGCCCTCCTGCCACCCAGCCACTGTGCCTCTCCAGCTGA
TGGACGAGGAAGCCTCCATTACTTGATTTTTGTTTTTATTATTTTGGAGACAGGGTCTCATTCTGTACCCAGG
CTGGAGTACCGTGGCAGATCATAGCTTATTGCAGCCTCGGCCTCCAGTCTCAAGCGATCCTCTGCCTCTGCC
TCCAGAGAAGTAGGGACCACAGATGCGTGCTACCACGCCAGCTAATTTTTGTATTTGTATTTTTGGTAGAGAT
GGGGGTGTCACTAIGTTGTCCAGGCTGGTCTCTAAGCTCTGGGCTCAAGTGTTCTCCCGCTCGGCCTCCCAA
GTGCTGGATTACAGGCGTGAGCCACCACCTGGCTGCATCCGTATGTTAAGAAGACCCCGGCTGGCAAGCTCA
CTCGGGGACTGCAGGGAACCTGCCCTTTGGGGGCAGTAGTGAGGGGTGCCAGGAGGATGGGGTGGTCAGCAGG
CAGTGATGCTGCTGTGCTCTCAGACCCCCAGTTCCTTCAGGATGATGGAGGATGCGGAGGCCCCGGGAG
AGCAGCTCTACCAGCAAAGCCGGGCCTACGTGGCTGCCAACCAGCGGCTGCAGCAGGCGGGCAACGTGCTGAGGC
AGAGGTGTGAGCTCCTGCAGCGAGCCGGCGAGGACCTGGAGCGGGAGGTGGCCAGATGAAGCAGGCAGCATTAC
CGGCAGCCGAGGCTGCCTCCTCAGGCTGACCTCTCGGGGCTGCAGGCTTGGGCAGCGCACAAAGGTGGCCTGCAC
CCAGGCTTTCCCTGGGGGTCCGTCCGCCCCAGACTGGCATTACGGGGTCCCAGCCACGTGGGTGTTGACACAG
GCGCCCCCTCTGATGCTGGGGCTGCGGTTTCATCCGTCTCTCATTTCATGCCGAGTTGGTGGGACCCACCCAGCTG
GCTCCGTCTCTGCTGACCTGAGGGCCCCACTGGGGTTCTGGAAGAGGATAGGGACATTATTGCTGTACTGTGATT
CTGTCGTGAGCTCACAGTGGCCGTGCTCTGCAGTGGGGCCCTGGGAGCAGGTGCCACCTCCTTCCTCTCCCGG
GCAGGCACTCGCCTGTCCACTTCTGAGTCCAGGTGTTGGGATCGAGGTGTTAACTGTGATTCCATCCAGCGAGTG
CCCACCAATGTGAGAGCAGCCCGAGGGCCAGCCTGAGCCCTGACCCCACTTCCTTCTGGGCCCCGGGCTCCTC
CCACAAGCCACGTTGATCTTACAACGACCCTGGGCCGTGGGGTCACCCAAGAGAAGCAGCCCTGAGACCCAGC
CAGGCTGGGCCTAGCTCCACGGCACGGGTGTCTCCAGCCACTGCCCTTGCTGGAGGACCGCTGTGAGTCACTGG
CCAGGAGCCAGGGTGTCTGAGTCTCATAGCCACCCTGCCAGCTGCAGCAGGTCTGGGCCTGCTTCCCTGCGG
GTTCTGGCCCTGGGGGAGGGGCGTTAGTGCGGCGGAGGCTTTGCCAAAGGCTTTTCATCCTAAATAGCAACTT
GAGTGGAAACCTGGGCAAGCGGCCAGAGGCTGGGCCCTGCACATAAAGCTTTCGTGTGTGTC

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FIGURE 5129

MGSKAKKRVLLPTRPAPTVEQILEDVRGAPAEDEVFTILAPEDPPVFFRMEDAEAPGEQLYQQSRAYVAANQR
LQQAGNVLQRCELLQRAGEDLEREVAQMKQAALPAAEAASSG

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FIGURE 5130

CGCGGGGAAACTGAGGCAGAGAGATGGGCTCCAAGGCAAAGAAGCGCGTGCTGCTGCCCACCCGCCCAGCGCCCC
CCACGGTGGAGCAGATCCTGGAGGATGTGCGGGGTGCGCCGGCAGAGGATCCAGTGTTACCATCCTGGCCCCGG
AAGGTAGGGGGAGCCCGGTCCCGGGGAAAAGCGGACCTGAGACCCGGCAGCAAGGGGACGGGAGAGAAGCACAC
CCCTAACTCCTGACCCACGCCCTGGGAACCCCCGCAACATGGGCACGGTCCGTATCCTCTCCGAGTCTCCCTCT
ACTCCTCCGTAGAGTGGGACCGATTTTCAGAGGGTTCTTCTGACAGGGGTGGAGGCCGGGCGCTGTGGTTCAGGC
CTGTAAGCCCAGCACTTTCGGAGGATGAGGCGGGAGGATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGCCAA
CATGGTGAAACCCCGTCTCTGCTAAAAATGAAAAACAAAAAC

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FIGURE 5132A

GCCTGAGGTGCCGCCCTGGCCCCAGGAGAATGAACAGCCGCAGAGGATGGCGCCTGTGGGCACAGACAAGGAG
CTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTACCAACGGGAAGGGCCGGCCCTCCCTG
GCCGGGGCGCAGTTTCGGAGGTTTCAGGTCTTGAGGACCGGCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGC
AGCTCCTCCTTTGACCCAGCCGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCA
TCCACATTCTTGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCCTCCTTCGGGAGAGACGCA
GGCGTGGGCGGCTGACTCAGGCTGGCTTCCTGTGAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCCCTGTCCCTT
TCGGGCATGAAGGGACCTCCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGGCGGAGAGCGGCAGACGGCAGC
CTAGACACGCAGCCCAAGAAGGTCCGAAGGTCCCGCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGT
GAGGACTACGGCAGGGATGCCACCGCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTAC
GTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAGGCGGGCTTCGGGCCATGCTG
GGTGGGGGCTCATCCCCGCTGCCCTCCCGCCCGTAGCGGCGCGGTGGGCAGCAGTGAAGCAGCAGCACGTTT
GGTGGCCTGCACACGACGAGCGTATGGGCTACCAGCTGCATGGAGCAGAGGTGAACGTTGGGCTCCCATCTGCA
TCTCTCTTCTCCTAGCCCCCGGAGCCACGTACGGCGGCGTCTCCAGCCACACGCGGCTGTACGCGGGGCCGAC
AGCCTCCTGGGCTCCCGAGGGACACAGCTGGCAGCTCCGGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTAC
TCCCCGATCACTCAAGCAATAACTTCTCGTCCAGCCCTTCTACCCCGTGGGCTCCCCCAGGGCCTGGCAGGA
ACGTACAGTGGCCTCGAGCAGGAGCCCCGGTGCCTTATCGCCAGCTACGACGGGGGTCTCCACGGCCTGCAG
AGTAAGATAGAAGACCACCTGGACGAGGCCATCCAGTGTCTCCGCAGCCACGCCGTGGGCACAGCCGGCGACATG
CACACGCTGCTGCCCTGGCCACGGGGCGCTGGCCTCAGGTTTACCGGCCCCATGTCACTGGGCGGGCGGCACGCA
GGCCTGGTTGGAGGCAGCCACCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTC
CCAGCCAGCCAGGCACCCCTCCCTGACCTGTCTCGGCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC
ACGGCGGCCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTACGCGGCTGACCACTCGGAG
GAGGAGAAGAAGGAGCTGAAGGCCCCCCGGGCCCGGACCAGCCAGACGAGGACGAGGACGACCTTCTCCCCCA
GAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGGTGGCCAATAACGCCCGGAGCGGCTGCGGGTCCGTGACATC
AACGAGGCCTTTAAGGAGCTGGGGCGCATGTGCCAAGTGCACCTCAACAGCGAGAAGCCCCAGACCAAACTGCTC
ATCTGCACCAGGCTGTCTCGGTATCTCTGAAGTGGAGCAGCAAGTGCAGAGCGGAACCTGAATCCCAAAGCA
GCCTGTTTGAACGGCGAGAAGAGGAAAAGGTGTGAGGTGTGGTTGGAGACCCCAAGATGGTGTCTTTCAGCTCCC
CACCCAGGCCTGAGCGAAGCCACAAACCCCGCCGGGCACATGTGAAGGTATGCCTCCGTGGGACGAGCCACCCG
CTTTCAGCCCTGTGCTCTGGCCCCAGAACGGCCACTCGAGACCCCGGGCTTCATCCACATCCACACCTCACACAC
CTGTTGTGACATCGAGCCAACACCAACCTGACAAGGTTTCGGAGTGTATGGGGCGGCCAAGGTGACACTGGGTCC
AGGAGCTCCCTGGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCCTGTCCCCGAATCTAGCCACCGTGTCA
CTCTGTGACCTGTCCCATGGATCCTGAACTGCATCTTGGCCCTGTTGCCCTGGGCTGACAGGAGCATTTTTTTTT
TTTCCAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACTTTGTGAGAGAAGAAAAAATGCCTTAACATAT
AAAAAGCGGAGAAATGGAACATATCACTCAAGGGGGATGCTGTGGAACCTGGCTTATTCTCTAAAGCCACCA
GCAAAATTGTGCCTAAGCGAAATATTTTTTTTAAGGAAAAATAAAACATTAGTTACAAGATTTTTTTTTTCTTAAT
GTAGATGAAAATTAGCAAGGATGCTGCCCTTGGTCTCTGCTTTTTTTTAAGCTTTTTTTTGCATATGTTTTGTAAGC
AACAAATTTTTTTGTATAAAAGTCCCGTGTCTCTCGTATTTCTGCTGCTGTCTAGACTGAGCATTGCATTTC
TTGATCAACCAGATGATTAAACGTTGTATTAAGAACCCCGTGTAACCTGAGCCCCCGCTCCCCCCCCCCCC
CCGGAAGCCACTGCACACAGACAGAACGGGGACAGGCGGCGGGTCTTTTGTTTTTTTTGTATGTTGGGGGTTCTCTT
GGTTTTGTGATGTGGAAGTGTATGCTGGGCGTTCCCTGATGAAGGCACCTGGGGCTTCCCTGCCGCATCCTCT
CCCCCTCAGGAAGGGGACTGACCTGGGCTTGGGGGAAGGGACGTGAGCAAGGTGGCTCTGACCTCCCAGGTGACT
CTGCCAAGCAGCTGTGGCCCCAGGGCTACCTACACAACGCCCTCCCAGGCCCCCTAAGCTGCTCTCCCTTG
GAACCTGCACAGCTCTGAAATGGGGCATTTTGTGGGACCAGTGACCCCTGGCATGGGGACCACACCCTGGAG
CCCGGTGCTGGGGACCTCCTGGACACCTGTCTTCACTCCTTTGCCCCAGGGACCCAGGCTCATGCTCTGAACT
CTGGCTGAGAGGATGCTGCTCAGGAGCCAGCACAGGACACCCCCACCCACCCACCATGTCCTTACACCA
GAGGGCCATCGTACGTAGACAGGATGCCAGGGGCTGGCCAGCCTCCCCAATGCTGGGGAGCATCCCTGGGGC
TGGGGCCACACCTGCTGCCCTCCCTCTGTGTGGTCCAAGGCAAGAGTGGCTGGAGCCGGGGGACTGTGCTGGT
TGAGCCCCACGAAGGCCTTGGGCTGTGCGTCCGACCTGCTGCAGAACAGCAGGGTGTCCCCCGGGGCCATCT
GTGTCCCATGTCCAGCACCCAGGCCTCTCTCAGGTCTCTTTTCTGGTCTTTTGCCATGAGGGTAACAGCTC

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FIGURE 5132B

TTCCCAGCTGGCTGGGGACTGICTTGGGTTTTAAACTGCAAGTCTCCTACCCTGGGATCCCATCCAGTTCCACAC
GAACTAGGGCAGTGGTCACTGTGGCACCCAGGTGTGGGCCTGGCTAGCTGGGGGCCTTCATGTGCCCTTCATGCC
CCTCCCTGCATTGAGGCCTTGTGGACCCCTGGGCTGGCTGTGTTTCATCCCGCTGCAGGTGCGGCGTCTCCCCC
GTGCCACTCCTGAGACTCCACCGTTACCCCCAGGAGATCCTGGACTGCCTGACTCCCCCTCCCCAGACTGGCTTG
GGAGCCTGGGCCCATGGTAGATGCAAGGGAACCTCAAGGCCAGCTCAATGCCTGGTATCTGCCCCAGTCCAG
GCCAGGCGGAGGGGAGGGGCTGTCCGGCTGCCTCTCCCTTCTCGGTGGCTTCCCCTACGCCCTGGGAGTTTGATC
TCTTAAGGGAACCTGCCTCTCCCTCTTGTGTTTGTCTCCTGGCCCTGCCCCTAGGTCTGGGTGGGCAGTGGCCCCAT
AGCCTCTGGAACCTGTGCGTTCTGCATAGAATTCAAACGAGATTACCCAGCGCGAGGAGGAAGAAACAGCAGTTC
CTGGGAACCACAATTATGGGGGTGGGGGTGTGATCTGAGTGCCTCAAGATGGTTTTCAAAAAAATTTTTTAA
AGAAAATAATTGTATACGTGTCAACACAGCTGGCTGGATGATTGGGACTTTAAAACGACCCTCTTTCAGGTGGAT
TCAGAGACCTGTCTGTATATAACAGCACTGTAGCAATAAACGTGACATTTTATAACG

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FIGURE 5133

MNQPQRMAPVGTDKELSDLLDFSMFPLPVTNGKGRPASLAGAQFGGSGLED RPSSGSWGS GDQSSSFDPSRTF
SEGTHTESHSSLSSTFLGPGLGGKSGERGAYASFGRDAGVGGLTQAGFLSGELALNSPGPLSPSGMKGTSQYY
PSYSGSSRRRAADGSLDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSTYPAPFYVADGSLHPSA
ELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERMGYQLHGAEVNGGLPSASSFSSAPGAT
YGGVSSHTPPVSGADSLGSRGTTAGSSGDALGKALASIYSPDHSSNNFSSSPSTPVGSPQGLAGTSQWPRAGAP
GALSPSYDGGLHGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLPGHGALASGFTGPMSLGGRHAGLVGGSHPED
GLAGSTSLMHNHAALPSQPGTLPDL SRPPDSYSGLGRAGATAAASEIKREEKEDEENTSAADHSEEEKKELKAPR
ARTSPDEDEDDLLPPEQKAEREKERRVANNARERLRVRDINEAFKELGRMCQLHLNSEKPQTKLLILHQAVSVIL
NLEQQVRERNLNPKAACLKRREEEKVSGVVGDPQMVLSAPHPGLSEAHNPAGHM

FIGURE 5134

CAGCAAACTCCGTGGCCAAAGCTGAGGAGGCCAGGGGCCGCTCCTGCTTCTCCACGGGTGTGCTCTGTGGCCCCCG
ATGGAAGGGGGAAGGATCCAAGCAGGCCCTCCCTGCCCAGGGCAGAAGATTCTGGAGTCTTGGCGTTGCCTGTG
AGTGTTCTGAGAGATAAGGGCCCCGCCGCCGCCGCCGGGACCAAGGTCTCGTCCCGTCCCTTGCTGCGCCGG
GAACTCCTGCCCCACGCAGGCTTCTGGTCTCCACACTGGGCTTGTTCTTGGGTGATGAGATTGGGCTCCACCCTC
ACGGGCTGCCAGCCTCCTGCCCGATGGGTGAGCCTCTGCTGCTGCTTCAGCAAAGGGCGGCCCACTTCCCACAC
TGGCAGGTGGGGACAGGGAGACCCTGGGCTCCCCAGAGCTCATGGGTAGCTTCCACACCCTCATGCTGTCTATG
AGCCTTTCTCACAGGGTCAGAAGAGTCTGCATCTGACACAGAGACCCAGTCCACATAGTCAGGGCTGGGCCAGA
GGGAGGGACTTGGGGCTGATGGGGAGGAGGCTCGGCGTGAGAGTGAGGTCTTTGCCCAAGGAGGGTATGAAAGCT
GGGGCTTTAGTGGGTGGGTAGGAGTTGGCCAGCAGAGAGCCGACGGAAGAGTTAATTTAAGTTTATGGACCTGTA
AGTGCTCCGAGTCCCAGGGTGTCTGGGTGTTAGCTGCTGACTGGTGTCTCATGAGTCGGGCTGGGTGAGGCTGG
GTTAGGAAGGGTTCCACAAGCCCCCGGGTCCACTGAGGTTTGCCCTGAGATGATGAACCGAAGCTTTTAGAGC
TGGGCAGGCGTGAGGGTGACCCATAACTCTCTCTGTCTGCTGCTGAGGCTTGGAGACCGGCCAGCTCAGGCTC
CTGGGGCAGCGGCGACCAGAGCAGCTCCTCCTTTGACCCAGCCGGGTAGGAGTCCCCGTGAGGCCTGAGACCTC
GAGTTTCTGTCCCCAGAGTTGGGGGCGAGGGGTGTGGGGAAACTGAGGCTGAGAGAAGGGGCCAGCCTTCCAGG
GGTTTGGACTGGGGGACATGGGTTTGAGTGCTGCTCTCCAGCTGTAATGCGGGGTGGAGGGGGGCGCTGTGAAG
CCCCAGCACCTCTCATCCCCACCCCATCTCCCCTAGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGC
AGCCTCTCTTCATCCACATTCTTGGGACCGGGACTCGGAGGTGAGTGCCCTGGCTGGTGCGGTCCCTCTGCTGTG
CACAGATGTGCAGACGTGGGCCTTGGCATGGTCA GTGCACGCACAGCGCCAGGCAAGTCCCCAGCGTCCAGCCAG
AGGGTGTGGACAGCCGAAGCCTCTGCCCCGTCTGGGAGCAGCTGCGGGGAGGTGACAGGGGACGTGGCCCGGACATC
CTTGGCACGGCACTCTGCAACTAGGCTTCCCCCGCTGAGCGTAGAGCAGGAGAGGCCGTTCCAGACCCCACTTCC
TCCCTGGGATTTCGTGAGGCTCCTCTGCTTCCCCGGGAGGGGTGAGCCGGGCTGGCCTGTGCCCGCTGGGAAG
GAGCCGTAGGAGTTCTTGAGACTCGGGAGGCGGGCAGAGTGTGCGGTGGTCAGAGCCCATGCCCTTCCGCAGAC
CGGCGGCCCGCCTTCTTCCCTGGGGGGCCCTCCTGTTAACCGAGAGAATCGTGACTCAGGTTGGGCTCGGTGGC
TCACGCTGTGAATACCAGCACCTTTGGGAGAGCGAGGTGGGTGGATCACCTGAGGTGAGGAGTTTGAGACCAGCCT
GGCCAACATGGTGAAACCCCGCTTCTACCAAAAAACAAAAATTAGCCGTCATGGTGTGGATGCTTATAGTGC
CAACTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGCTGCAGTGAGCCGAGATCACGC
CATTGCCCTCCAGCCTGGGTGATGGAGCGAGATTCCATCTT

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FIGURE 5135B

ACAAGCGGTCCCTGCGGAACCTCATGGCCGACTACCTCAGACAGATCATCCAGGACAATGTGGATGGGCACAGCT
CCAGCGAGGACGCCGGCGCCTGCATGCACCTGGTGATCTGGAAGGTTTCGAGAAGACGCCAAGACCAAGCGATGAC
GCCTGCCCCGCTCCACCCGCTCTCCTGCCGTCCCGCTGGTCCTTAGCCCCATGCCTCTTCCAAAACAGTGCAA
TAAATCTCCGGTAACCCGTCCACCTGGCCGAGGCAGCCAGAGCAGCGGGATGAGCTGGCGGCCAGAGAAGCCCC
AGCCCAGCCCACCCCGCTCACGTCTGCGCACCCTCCGCCGGTCCCCACCCTCTGCCCCCAGCCCTCTGGC
GTCTCTAGAAACTGCTGCTGATGGAGACCAGGACAGAGCCCGCCCCACCCGGCCCGCAGCCCTCTGCCCCC
CTGCCAGGCCCTCCCTCCCGGTGGTGGCCGGCACCTCTGCTCCTCACGTGGGTCGCGGGGCGGGCTTGTCCCAG
GTTTGTTTGAGACAGTCTTTTTTATTTTGTATTGTTATTTTATTATTTTAAATTTAAACCTGATGACTTGAC
AGCATCTTTCCACCGGAAGAGCGGGCCIGCTGCCTTCCCTCCTGCGGGGTGGGGGTGGGACAGACCCAGTGG
GGGCCAGGGCCACACTCAGCGCAGTGTGGGCTGGACCCGCTCTGTGCTCCAGGGGCTGGCCGGTCTTCGGGGC
GCCGGCTTCCACCACTCGCCGCCCCACCCCTGCACTCCGTGACCTCTGAGAACCCAGCTGGCCCCCTCGTTAGCCC
CAGGGTCTGCCGTCTAGAGGGAGCCACCGGCCCTCCGGACACTGTCTTCCCGCTAGAGCCCCGTCTCTCTGCG
GGGCTCTCCGGACCCCTTCCCCCTCACCTCCAGGCAGGGACAGAATAAATGTTTGTATGGATTTT

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FIGURE 5136

MLRSTGFFRAIDCPYWSGAPGGPCRRPYCHFRHRGARGSGAPGDGGEAPPAAGLGYDPYNPELPKPPAQRENGTL
GLGEEPRPDVLELELVNQAIEAVRSEVELEQRRYRELLETTREHRS AEAPALAPRGPNASPTVGPDEDAFPLAFD
YSPGSHGLLSPDAGYQPTPLAAPAEFGSKYSLASLDRGQGRGGGGGALEYVPKAVSQPRRHSREVPSPGKYVVDN
SRPPTDLEYDPLSNYSARHLSRASSRDERAAKRPRGSRGSEPYTPAPKKLCDPFGSCDARFSDSEDEAATVPGNE
PTTASTPKARADPEIKATGQPPSKEGLEAEGGGLRETKETAVQCVDLQPPPAKPASPAQVQSSQDGGCPKEGK
PKKKKTGAPPAPSCKDGAQGKDCTDKGRGRPVKEPRADKKGPQASSPRRKAERPEGTKKKPSSATPVATSGKGR
PDRPARREPTSGDSRPAAGRGPPRPLQLPDRKSTKAPSGKLVERKARSLDEGASQDAPKLKKRALSHADLFGDE
SEDEAAGFGVPSVWPSALPSLSSDSDSDSSSLGFPEAQGPPKRLKASPPSPAPSSSSSSSSSTSSAGADVDS
ALEKEVD FSDPMEECLRIFNESTSVKTEDRGRLARQPPKEEKSEEKGLSGLTTLFPGQKRRISHLSKQGQEVPEP
PRRGPAVPPARPPTAQEV CYLRAQQAQRASASLLQAPARLAEKSPSVHISAPGEKRRIAHIPNPRLAAAPTGA KR
TLAASGSQSSNGPEPGGQQLKTRTLSGMASKTTTTIIPKRIAHSPLQSLKKPIIPKEFGGKVPTVIRQRYLNL F
IEECLKFCTSNQEAIEKALNEEKVAYDRSPSKNIYLNVA VNTLKKLRGLAPSAVPGLSKTSGRRVVSHEVVLGGR
LAAKTSFSLSRPSSPRVEDLKGAALYSRLREYLLTQDQLKENGYPFPHPERPGGAIIFTAE EKRPKDSSCRTCCR
CGTEYLVSSSGRCIRDEECYHWRGLRRNRVAGGWETQYMCCSAAAGSVGCQVAKQHVQDGRKERLEGFVKTFEK
ELSGDTHPGIYALDCEMS YTTYGLELTRVTVD TDVHVVDYTFVKPDNEIVDYNTRFSGVTEADLADTSVTLRDV
QAVLLSMFSADTILIGH SLESDLLALKVIHSTVVDTSVLFPHRLGLPYKRSLRNL MADYLRQIIQDNVDGHSSE
DAGACMHLVIWKVREDAKTKR

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FIGURE 5137

TGCAACGGGGCCCCCAGGGCAGCTAGGAGGTCCTCCCTCTCCTCTCCACCACCCCTGCTGCCCCCTCCCG
GGGTGGGGTTTGGGGGGGTGGAGTGGACTTCTGGGAGCCGGCCCGGGGAAAGCACCCCTGCCCCATCCCTGCAG
ATTGGGATGAAGTGTTTCAGACAGCCATAGAGGAGTCGGGGGTTCAGACGGCCCCCTGCCTCTCCCCACCCACCCC
CACCCACCGAAAGCCATGGGAGTAGTTTCAGGGAAATGGGGGTTCAGAGCCAGCCACCCCATTCGGGTACTCAA
TCTCAGGTGTCCACAAGTTCTGCACAGGTAGGGGCTGCCTGGCCCCCAGACCTCGGGGGTAGAGCCAGGAGTG
GGCAGCGTTAGGATGCCCCGAGGGGCTCCAGGTGTTGCTTCTGAGACCTGGGATGGGGAGGGAGGGGACCTCTG
GGTTCTTCCAAAGAACATTGACTCAGTGGGGTCGGGAGGGAATCCTGGCTTATTTATTTTCTCTGTCTCGGG
TGTGGGGGCCCTAGCTCGCCCTCTCTGGGTGGGTGAGAGAGGCTGCAGGGGAGGCTGGCACCAGGGCTTGGG
CCTCCAGTCCCTGCCTTGCTGACTTTGGCCGTTGCGGTATCACGTGACAATCAACTCTCCCTTAACGACGACTGC
GGCTGTTGGGCTGCGCTGCCCTCCCTGGCCTGCAGGTGGGGCCGTGGAGCCCATGCCCGCCGGGGTTGCAGGCTC
TTCGGGGCCTGGGCTGCAGCCTGGCCCCGGCCCTGCTTCCCTGGCCTCCCTCTCTCTCTGGGTGCTTGGAAGAG
GTGGGTCTGGCCCCGTGGTTGAGGTCTTGCCCTCGTGGACTGGAAGCAGAGGGCTGGCTGTGCAGCCTCCTGGGGT
AGCTCGTTTTTTTTTGACCGGGTAGAATATTTTTTCAGGCACGGATTCTTTTTTCTGGGCCCCCATGGGTGGT
CCGGCATCCTCAGGGGGTGTGAGTGTGTGTGGGGGTCTCTGAGCTGAACTTGGGTGGGGTGGGGACTTGTTCCT
CGGGGGCCACCTTTGTGTCTTGTTCAGCGGTCTCTGCTGTGGCCTGGGTGTCATTTCTCTTGGGGGGGTAT
TGAGGACCCCGAGCCTGGAATGAGAAGGGTCCCCGGTTCCATGTCAGACCCAGAAAGGTGGATCCCCCACTGTT
GGCTGCAGGAGGTTTTTGGTACCCCTTTTGTTCAGAACCGTCTGCTCTCGCTTGGGGACAGGGGGGCTTTG
GATGGCAGTGGTGTGCACCTGGACCCAGCCCCGGCCTGGCAGGATCCAGGGATGGGTGCTTGGGATCCTGGGGG
AGGGAGGCAGGGGACGCCCTTCTGGAGCTGGGCTCGGAGGGTCTGCCCCATCCAGCCCTCGGCTCTCTGTGTTT
TCTGTCCCTAGCCTCAAACCCTCTTCTGGCAGCGCTAGTGAGATGCCTTAGTCTGTGGGGGTGGGTGGGGGACTG
GGGCCCCGTTTTCTTTGTGAGTCTTGGTTGGCCCCAGCCCTGGCAGGGGCTGTCTGGAGCAGGGGTAGGTAGG
GCTGTGGGTTCAGAACTCTATAACTGGGCCCCCTCTCCAGTGTCCAGGGGCTTGGAGAGACCTGCGCCCAACCCT
CCACTCTCCAGGAGTCGCTGATCACTGGGACCTGGTTCCAGCCGTTTGAGGGGAGGCGGCTCCGAGAGGCGTG
TGCTTTCCGTGGGTGGCGCCCTCCCCCGCCCTGCCTGGCCTCATCTTGTATTTAATTAATTAACAAGCCCCT
TTTTAAACCCT

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FIGURE 5138

GCGGAGGGACCGACGGACGCACGGGCGGGCGGCCGGGAGCCATGGAGCGCGGCCCTGGGGCCCCGGGGCGCGGGC
CGGGGTGGGCTTCCACGGCACGACATGGAGACCTGTGGTTGCGAGGCTCCCTGGGGCTCGGCTTGGACCGCGAT
GGGGCTGGGCCCTGGCCTCCTAACGGGGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCCCCTGCCCGC
GACTCGGAGCACCCCCACCCCTCCCTGCCGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCGGTGGAGGCC
CGGCCTGGGCGGCGCCCGCCATGAATGGGCTGTCGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCC
CCGGCCGCATCGCTGCCAAGCTCGCCTTCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCCGAGCCGG
GGCCTGGTGGGGCCGGGGCGCCCCCTTGGGGACCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGC
ACCTGACGGAGCGTGCCGACTTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCG
CCCCGGCAACCGCGTCTCCTGCATGTATGTTTCGCTGCGTGCCTGGTGCCAGACAAGGACACCAGGCTCAGGGAG
GCCATCCCCAGCTGGCATGGGTGGGCAGGCTGGGCGACTCCAACAACCCAGCGCCTGGTGGTTGCCTGCTGGGCG
AGAGCTGGGGCACAGGGGCTGCCCTGGCCTGCGGGTACATCCACCTTCTCGCCAGGTACACGGTCTCTTCTCGC
ACGGCAATGCCGTGGACCTGGGCCAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCT
TCTCTACGACTACTCCGGCTACGGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACG
CCGCCTGGCAGGCCCTGCGCACCAGGTACGGCATCAGCCCGGACAGCATCATCCTGTACGGGCAGAGCATCGGCA
CGGTGCCCACCGTGGACCTGGCCTCGCGCTACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCTCGGGCA
TGCGCGTTCGCTTCCCCGACACCAAGAAGACCTACTGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGA
TCACGTCTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGCTCTACG
AGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACAGCCAGT
ACCTGGAGCGCCTGCGTTCGCTTCTATCTCCAGGAGCTGCCCAGCCAGCGCGCTTAGCGGGCGCCCCAACCGGCCG
GACCTCAGCAATAAGGCGGCCCCCGGACCTACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCCG
GGCGGCCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACTCCTTCC
TTTGGAAGCAAGAAGAAAATACGTGAAAACGGAATTAAGATTTAAATTTTAAAAAAAAAAAAAAAAA

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FIGURE 5139

MNGLSLSELCCFLCCPPCPGRIAAKLAFLPPEATYSLVPEPEPGPGGAGAAPLGTLRASSGAPGRWKLHLTERAD
FQYSQRELDTIIEVFPTKSARGNRVSCMYVRCVPGARQGHQAQGGHPQLAWVGRLGDSNNPAPGGCLLGESWGTGA
ALACGYIHLLARYTVLFSHGNAVDLGQMSSFYIGLSRLHCNIFSYDYSYGASSGRPSEPNLYADIDAAWQALR
TRYGISPDSSIILYGQSIGTVPTVDLASRYECAAVVLHSPLTSGMRVAFPDTKKTYCFDAFPNIEKVSKITSPVLI
IHGTEDEVIDFSHGLALYERCPKAVEPLWVEGAGHNDIELYSQYLERLRRFISQELPSQRA

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FIGURE 5140

ATGAATGGGCTGTCGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCCGCCCTGCCCCGGCCGCATCGCTGCCAAG
CTCGCCTTCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCGAGCCGGGGCCTGGTGGGGCCGGGGCC
GCCCCCTTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGCACCTGACGGAGCGTGCCGAC
TTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCGCCCGCGGCAACCGCGTCTCC
TGCATGTATGTTTCGCTGCGTGCCTGGTGCCAGGTACACGGTCTTCTCTCGCACGGCAATGCCGTGGACCTGGGC
CAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCTTCTCCTACGACTACTCCGGCTAC
GGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACGCCGCTGGCAGGCCCTGCGCACC
AGGTGA

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FIGURE 5141

GGGATTTGCACGGCAGCAGAGTCAACCGTGGAGAGGCCAGGGTATCACAACTTATCGGATTTTGACAAGAAAGGAG
GGAAAGGGGAGACGGAGGAGGGCCGGAGAATGTCCAAGGCCGGGGGGCCGGAGCAGCCACGGCATCCGGAGCT
CGGGGACCAGCTCGGGGGTCTGATGGTGGGCCCCAACTTCCGCGTCGGCAAGAAGATCGGCTGCGGCAACTTCG
GGGAGCTCCGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTATCAAATTGGAGCCGATCAAGTCCCGGG
CCCCGCAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCACAGAGGGCGTCCCTCAGGTCTACTACT
TCGGTCCGTGCGGGAATTACAACGCCATGGTGTGGAGCTGCTGGGGCCAGCCTGGAGGACCTGTTTCGACCTGT
GCGACCGGACCTTCAGCTCAAGACGGTGTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTATGTGCACA
CCAAGAGCCTAATCTACCGGGACGTGAAGCCCCGAGAATTTCTGGTGGGCGCGCCGGGGACCAAGCGGCAGCATG
CCATCCACATCATCGACTTCGGGCTGGCCAAGGAGTACATCGACCCCGAGACCAAGAAGCACATCCCGTACCGCG
AGCACAAAGAGCCTGACGGGCACGGCGCGCTACATGAGCATCAACACGCACCTGGGCAAGGAGCAGAGCCGCCGCG
ACGACCTGGAGGCGCTGGGCCACATGTTTATGTACTTCTGCGCGGCAGCCTCCCTGGCAGGGGCTCAAGGCCG
ACACGCTCAAGGAGCGGTACCAGAAGATCGGGGACACCAACGCGCCACGCCCATCGAGGTGCTCTGCGAGAAT
TCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCTGGACTTCTTCGAGAAGCCCGACTATGACTACC
TGCGGAAGCTCTTCACCGACCTCTTCGACCGCAGTGGCTTCGTGTTGACTATGAGTACGACTGGGCCGGGAAGC
CCCTGCCGACCCCCATCGGCACCGTCCACACCGACCTGCCCTCCAGCCTCAGCTCCGGGACAAAACCCAGCCGC
ACAGCAAAAACAGGCGTTGAACTCCACCAACGGGGAGCTGAATGCGGACGACCCACGGCCGGCCACTCCAACG
CCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAATGCTGCTGTTTCTTCAAGAGGAGAAAGA
GAAATCGCTGCAGCGACACAAGTGAACCTGGGCGCGTGCAGCCCCCTGAATCTTCTCCGTGCAGCCCCCTGGGG
CGCGACCTTGTGCGAGGCCCTCGGGGCCACCCACAGCGGCCAGGGCCAGACCCTGGCTGGAAGCCAGAACGCA
GACTGCAGGGGCCGCGCTGGCTCAGGCGGCCACCCCGGGACGTGGGGTCACTTCCTTCATGTAAGACTTTG
GCCGAAATTTCTACACCTGTGTCTAGTCTCCCTCCAAGAGCATTAATATTTAAACAAGGAAAAGAGGAAAA
AAAAACAGAGGCCCGCCCTACCCCACTCCTGCCCTCCGTTTCTTGTGAAGTGAGTAGTGTGATCCTGGAGG
CCCCCGGCTGGCCCCGCCCGCCAGCGCCCCCGTTAGCGTCATAAAGTCCAGCTTGTCTCCCTCGATCCAAA
GGCCGTTTTCTCGAGGGGAGGGCAGGCCCGGCCCTGGAGGGGTGCTGTGGAGCTGTCTTGCCAGGCCCTCCTGGG
AGGGGGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCGAGCCTCCCCGAAACCAAGGGGAAGGCAGGGGTG
GGGCCGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAAGCTCGGGCGCCGGGGCACGGCTGCTGCAG
TCTCTTCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGCGGGTGTCTTCGACGCACTTGCTCCCG
GAGGCTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGTTGGTGTACCCCTGCTCGGCCCTCAGCCCTGC
CGCGTGGGGCGCGTGGGCACGGAGCTTCTGCCTCTGCTCCGACACCCGGCAAGCAGCCGGAGACAAAACGCCTT
AAAGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGGCTGGGGCGGCCCTGGACTGGCGGGCGGTTCCCCAG
TGGGGTGCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGCGGTGCCAGGGCGGTGGCTGTGAGTCTAGT
TTTTGCTTTACCAAGTGTACAGAAATGGCATTACGTTTCTCTGATGCTCCCTGAAGCCATAGAATTTAGGGG
TTTTTTAAAAAATAAAAGAAAAATGAAACCAAAAAAAAAAAAAA

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FIGURE 5142

MDFDKKGGKGETEEGRMSKAGGGRSSHGIRSSGTSSGVLMVGPNFRVGKKIGCGNFGELRLGKNLYTNEYVAIK
LEPIKSRAPQLHLEYRFYKQLSATEGVPQVYFPGPCGNYNAMVLELLGPSLEDLFDLCDRTFTLKTVLMIAIQLI
TRMEYVHTKSLIYRDVKPENFLVGRPGTKRQHAIHIIDFGLAKEYIDPETKKHIPYREHKSLTG TARYMSINTHL
GKEQSRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTKRATPIEVL CENFPEEMATYLRVVRRLDFF
EKPDIYDLRKLF TDLFDRSGFVFDY EYDWAGKPLPTPIGTVHTDLPSQPQLRDKTQPHSKNQALNSTNGELNADD
PTAGHSNAPITAPAEVEVADETKCCCFKRRKRKSLQRHK

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FIGURE 5143

ATGGCGGCGGGTGGGAGCGGCGGGCGTGCGTCGTGCCCCGCGGGGTGCGGGTGGCCCCGGGCACGGGGGGCAGT
CCCCGGCCAGCGCCAACGCGCGCGCCACCCCGGCCCCGGCAACGCGGCCCGCCGCGCGCGCCGCGCGCC
GCGCGCGCGCCCTGGGCGACGCGCGCGCGCGCGGGGCGCGGCTGCAGCGGAGGCGCGTACAACCTGGCAGGCCAGCAAG
CGGGCGGAGGAGGCGGCGGGCGGGGCGCGGCGCTGCAGCGGAGGCGCGTACAACCTGGCAGGCCAGCAAG
CCCACCGTGCAGGAGCGCTTCGCCTTCCTTTCAACAACGAGGTGCTGTGCGACGTGCACTTCCTGGTGGGCAAG
GGGCTCAGCTCGCAGCGCATCCCCGCGCACAGGTTTCGTGCTGGCCGTGGGCGAGCGCGCTTTTGATGCCATGTTT
AACGGGGGAATGGCCACAACATCCACGGAGATTGAGCTGCCGACGTGGAACCCGCGCCTTCCTCGCACTGCTC
AAGTTTCTTACTCGGACGAGGTGCAGATTGGCCCGGAGACGGTGATGACCACGCTATACACCGCCAAGAAGTAC
GCGGTGCCAGCGCTCGAGGCCATTGCGTGGAGTTCTGAAGAAGAACCTGCGAGCCGACAACGCCTTCATGCTG
CTCAGCGAGGCGCGACTCTTCGATGAACCGCAGCTGGCCAGCTGTGCTGGAGAACATCGACAAAAACACTGCA
GACGCCATCACCGCGGAGGGCTTCACCGACATTGACCTGGACACGCTGGTGGCTGTCTGGAGCGCGACACACTG
GGCATCCGTGAGGTGCGGCTGTTCAATGCCGTGTCCGCTGGTCCGAGGCCGAGTGTGAGCGGCGAGCTGCAG
GTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGCCCTGGGCCTCATTGCTTCCCGCTCATGACCATCGAG
GAGTTTCGTGCGAGGTCCCGCACAGTCGGGCATCCTGGTGGACCGCGAGGTGGTCAGCCTCTTCTGCACTTCACC
GTCAACCCCAAGCCACGAGTGGAGTTTATTGACCGGCCCCGCTGCTGCTGCGTGGGAAGGAGTGCAGCATCAAC
CGCTTCCAGCAGGTGGAGAGTGTGCTGGGGCTACAGCGGGACCACTGACCGCATCAGGTTCTCAGTCAACAAGCGC
ATCTTCGTGGTGGGATTGGGCTGTATGGATCCATCCACGGGCCCCACCGACTACCAAGTGAACATCCAGATTATT
CACACCGATAGCAACACCGTCTTGGGCCAGAACGACACGGGCTTCAGCTGCGACGGCTCAGCCAGCACCTTCCGC
GTCATGTTCAAGGAGCCGTTGGAGGTGCTGCCAACGTCAACTACAGGCGCTGTGCCACGCTCAAGGGCCCAGAC
TCCCACTACGGCACCAAGGCCCTGCGCAAGGTGACACACGAGTCGCCCCACCGGGCGCAAGACCTGCTTCACC
TTTTGCTACGCGCGCGGGAACAACAATGGCACATCCGTGGAGGACGGCCAGATCCCCGAGGTCTCTTCTACACC
TAGGCTGCCCCGACACCGACACCGCCCTCCCTCCGCGGGGATAGCCGAGCCCCAGGCCATCATCTGCTGCTGGG
TCCCCCACCACGCGGTGCCAGGCCAGTGTCCCCAGGCCGTCTGTCCACTCCATGCCACCTTTCTCAGCATCA
GGACGGGGTTGCCCTGTGTTACACAGAGTGTGGCTGCTGGATCAGGGCAGCCGGGAGGTGGCCAGGCCAGTGG
CCAGGCCCTGTGGAGACAATCCCTCAGGACTAGGGACAGGGCTGTGCCGGCTGGGCCAGGGCCACGGACCCGC
AGCTCAGGGCGCCTGCCACGTCGTCTGCCGCGGTGCGCCGCGGGCGTCCCTCGCGTCTCTTCACTGCACATTG
CAATGCATTGCGATTCCCATTTCTCTGCTAGGAGCCAGCCTGGGTGGCGCTGCTCCAGAGCCGTGGGTCCCAG
ACCTTGCGTTCTTTTGTCTGTCGTTTATCAGGACACGGGCCCCACCTGTCAGTGCCCGAGGCCACCCAAG
CCCAGCCTGCGGGGCGTTCCCACTGCTGGATGCCGCTTGAGTTCTGCGCACGCGAGGATTAGTGTGGGGACGG
CCCCTGCCGATAGGCCTAGCCCTGGCCCAGGTGGTGGCGGTTTGCAGTGTCCGTTCTCATCCACCTGATGGGC
CCAGATAAAGGCCCCCGCTGTCCAGCCTCCCTGGACGGCCCTCGCGGTCCCTGCAGCCCAAGATGGGACTCAGAC
CCTGTGCCCCAGAGCTCCCTGCGCAGAATGGGGCCCCAGCCGGCCCCGACCGGGTCCAGGAGCACTGCTCGCC
TGTAATACTGTTGCCCTAGCCACCTGGTGCCGTGGGAGCCACCCCGAGGTGCTGGGGGCACAGCCCTCCCCA
CTCCGGCCACGCCCCACCCACCCGCGTGTTCGCTGTGACTCCTGGAACCTGCGTCTCCCAAAGCCAT
GGGAGGGGTGCTCTCTCAGACCATGCCCCAGATGATTTTTTAAATAAAGAAACAAATGCACCTGCAAAAAA
AAAAATAGAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5144

MAAGSGGRASCPPGVGVPGTGGSPGPSANAAATPAPGNAAAAAAAAAAAAAPGPTPPAPPGPGTDAQAAGAE
RAEEAAGPGAAALQREAAYNWQASKPTVQERFAFLFNNEVLCDVHFLVGKGLSSQRIPAHRFVLAVGSAVFDAMF
NGGMATTSTEIELPDVEPA AFLALLKFLYSDEVQIGPETVMTTLYTAKKYAVPALEAHCVEFLKKNLRADNAFML
LTQARLFDEPQLASLCLENIDKNTADAITAEGFTDIDLDTLVAVLERDTLGIREVRLFNNAVVRWSEAEQROQLQ
VTPENRRKVLGKALGLIRFPLMTIEEFAAGPAQSGILVDREVVSFLHFTVNPKPRVEFIDRPRCCLRGKECSIN
RFQQVESRWGYSGTSDRIRFSVNKRIFVVGFGLYGSIHGPTDYQVNIQIIHTDSNTVLGQNDTGFSCDGSASTFR
VMFKEPVEVLPNVNYTACATLKGPDSHYGTKGLRKVTHESPTTGAKTCFTFCYAAGNNNGTSVEDGQIPEVIFYT

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FIGURE 5145

TATTTATAAACACACTCACAGGGCCAGATTTGGGCCACGGGCCATAGTTGCCAGCCCGGCTTTAACTGCTGGTCC
TCACGTTAGTCTCACTGCCTCCTGCAGGGTGGGCATGTGGGTGTCTGTGTTACGCAGCCCCCTTCTCCACCCAC
AGACACGCTGGTGGCTGTCTTGGAGCGCGACACACTGGGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCG
CTGGTCCGAGGCCGAGTGTCTAGCGGCAGCAGCTGCAGGTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGC
CCTGGGCCTCAATCGCTTCCCGCTCATGACCATCGAGGAGTTCTGCTGCAGGTAACAGAGCTCGGGCTCAGGGGCT
GGTTTGGGAGGGGAGTGGCACACAGGTGGGCATCTGGGTACCGAGGATAGTGCCCCGAGTTCACTGCGGAAAGC
CTGGCAGATGCCTGGCATATACAGATAGGAAGAAACCTGGCTTGTGAGGACGCGTCCACAGGGCCATCTGTTAGC
CCCGCCCCGGCTCTGTCCCCACCGTGCACACTGCCAGACCCCGCCTCTCTGTCTGTCCAGCTGTTTTGGTGGCA
TCTTCCCAGGAGGGAAGGGAGTCCCGTCTCGCGCCCTTGTGCTACCTGCTGGTGCAGGTACAGTGTCTGTGAC
GAGCTCAGGAGGGCTCTGACATGGCCGGGGTGGCTGTCTATGCGCCCGAGTGGGCCTTGGGGTCCCCTGCTGCAGG
GCCTGGGTTCCAGGGTGACGTGAAGGGGCAGCGCTAACGATGCCTCCTGCCCTCGTGGCTGCTCACTGCCTGACG
CCATCCAGCTCTGGAGCAAAACAGGCCTGGAACCTTCCAGAAGGGGCTGGGACAGAGCCCTGGGGCTGGTGCACA
CTCGCCGTCTGGCCTTCCCCAGGTCCACGCGGCC

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FIGURE 5146

GCTGGCGGGGCCCGGACAGAAGATGGTGCAGAAGAAACCAGCCGAAC TTCAGGGTTTCCACCGTTTCGTTCAAGGG
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCCCCAGCCAGCCCATTTGACATCCCGGACGCCAAGAAGAGGGGGCAAGAAGAAGAAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTCGGAGCAGGGTTTTTCAGGGAGGTGGAGATGCTGTACCAAGTGCCAGGGACACAGGAACGTCCT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCGGAACATCCTCTGTGAGACCCCCAACCA
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACCTCAACGGGGACTGCTCCCTATCTC
CACCCCGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGTTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCGCTGTGGCAGCGACTGCGGCTGGGACCGCGGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCCAAGTCCTGCAACACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGTCCTGCAGAGGTGGGACAGTCACTTCTCTCTCCC
TCCCCACCCCTGTGCGATCCACGTGCGACCTGGAGGACTGGTCAGAACC GTTACTGTGAATGAGTGAAGATCCTG
GAGGACCCTGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTTT
AAAAGACAAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCCA
ATGTACCAGGTGAAGTACGAGCTCAGAAGTTTCTTTTACACCAACTGTCAATGCCGAATTTTGTATTCTGT
TTTGTAAGATTTAATAAAAGTCAAAAAACTTGCAAAAAAAAAAAAAA

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FIGURE 5147

MVQKKPAELQGFHRSFKGQNPFEAFSLDQPDHGDSDFGLQCSARPDMPASQPIDIPDAKKRGKKKKRGRATDSF
SGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIIEKQPGHIRSRVFREVELYQCQGHRNVLELIEFFE
EEDRFYLVFEKMRGGSILSHIHKRRHFNELEASVVVDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKIC
DFDLGSGIKLNGDCSPISTPELLTPCGSAEYMAPELVEAFSEEASIYDKRCDLWSLGVILYILLSGYPPFVGRCG
SDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWVQGCAPEN
TLPTPMVLQRWDSHFLLPPHPCRIVRPGGLVRTVTVNE

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FIGURE 5148A

CCAAGCCTGAGTGTTAATTAACTCTATGTGTGCCCGCTGTAAACATCCGAGGTCATTTGTTGCGTTGAATTAT
CTGACCATCCTTTTTTACTGTGACTCTTCCCATTCTCTTTGGCAAGAAGTCCCCTTCTCGCCCCAAACCAGCAA
GGGACTCCCCACCTGGGTCTGTGCCCTGCCCCGCGTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCT
GTCCTGACGGTTGCGTCCGGGGAGGGGAAGGGCCGCTGTGCCAAGGTTTCTCTCCAGAACCACAGT
GGGCCCGCGCATGATGCCCTCAAGATGGTGAAGGGCAGCATCGACCGCATGTTGACAAGAATTCGAGGACTTGG
TCCGCGGCATCCGTAACCACAAGGAGGACGAGGCAAAATACATATCTCAGTGCATTGATGAGATCAAGCAGGAGC
TGAAGCAGGACAACATAGCGGTGAAGGCGAACGCGGTCTGCAAGCTGACGTATTTACAGATGTTGGGATACGACA
TCAGCTGGGCCGCTTCAACATCATAGAAGTGATGAGTGCTCCAAGTTCACCTTCAAGCGAATTGGCTACCTCG
CTGCTTCCCAGAGCTTTTACGAAGGCACCGACGTCTCATGCTGACCACCAATCAGATCCGTAAGGACTTGAGCA
GCCCCAGCCAGTACGACACAGGTGTTGCACTGACGGGTCTGTCTGCTTCGTACCCCCAGACCTTGCCAGAGACC
TGGCAATGACATCATGACACTGATGTACACACCAAGCCCTACATCAGGAAGAAGGCTGTGCTGATCATGTACA
AGGTGTTCTGTAAGTACCCGAGTCTGCTGCGCCCTGCCCTTTCCCCGGCTGAAGGAGAAGCTGGAGGACCCCGACC
CCGGGGTTCAGTCTGGCTGCGTCAATGTCTCTGCGAGCTGGCCAGACGCAACCCTAAGAATACTGTCTCCCTGG
CCCCGCTCTTTTTCAAGCTGATGACGTCTCCACCAACAAGTGGGTCTCATCAAGATCATCAAGCTGTTCCGTG
CTCTTACTCTCTTTGGAACCGCGCTGGGCAAGAAGCTGATCGAGCCCTCACCAATCTCATCCACAGCACGTCTG
CCATGTCTCTCTCTATGAATGTGTGAACACCGTGATTGCACTGCTCATCTCGCTGTCTCCGGCATGCCAACCC
ACAGCGCCAGCATCCAGCTTTGTGTTTCAAGAAATTAAGGATATTGATCGAGGACTCCGATCAGAATTGAAGTACC
TGGGGCTGCTGGCAATGTCCAAGATCCTGAAGACCCACCCCAAGTCCGTGCAGTCCCAAGGACCTCATCTGCTG
AGTGCTTGGACGACAAGGACGAGTCCATCCGGCTGCGGGCCCTGGACCTGCTCTATGGGATGGTGTCCAAGAAGA
ACCTGATGGAGATCGTGAAGAAGCTGATGACCCACGTAGACAAGGCAGAGGGTACCACCTACCGTGACGAGCTGC
TCACCAAGATCATTGACATCTGCAGCCAGTCCAATACCAGTACATCACCACCTTCGAGTGGTACATCAGCATCC
TGGTGGAGCTGACCCGGCTGGAGGGCACACGGCACGGCCACCTCATCGCCGCCCAATGCTGGACGTGGCCATCC
GCGTGAAGGCCATCCGCAAGTTCGCCGTGTCCAGATGTCTGCGCTGCTTGACAGTGCACACCTGCTGGCCAGCA
GCACCCAGCGGAACGGGATCTGTGAGGTGCTGTACGCTGCCGCTGGATCTGCGGGGAGTTCTCAGAGCATCTGC
AGGAACCACACCACACTTTGGAGGCCATGTGCGGCCAGAGTACCACGCTGCCAGGCCACATCCAGGCCGTGT
ATGTGCAGAAGCTGGTCAAGCTCTACGCTCCATCTGCAGCAGAAGGAGCAGGCCGGGGAGGCAGAGGGCGCTC
AGGCCGTACCCAGCTCATGGTGGACCGGTGCCCCAGTTTGTGACAGCGCAGACCTGGAGGTGCAGGAGCGGG
CGTCTGTCATCTGACGTGGTCAAGCACATCCAGAAGCTTCAGGCCAAGGACGTGCTGTGGCAGAGGAGGTCA
GCGCTCTCTTTGCTGGGGAGCTGAACCCAGTGGCCCCAAGGCCCAGAAGAAGGTTCCAGTCCCCGAAGGCCTGG
ACCTGGACGCTGGATCAATGAGCCACTCTCGGACAGCGAGTCAGAGGACGAGAGGCCAGGGCCGTCTTCCACG
AGGAGGAGCAGCGGCGTCCCAAGCACCGGCCGCTCGGAGGCGGACGAGGAGGAGCTGGCTCGGCGCCGAGAGGCC
GGAAGCAGGAGCAGGCCAACAACCCCTTCTACATCAAGAGCTCGCCATCGCCACAGAAGCGGTACCAGGACACCC
CGGGCGTGGAGCACATTCCCGTGGTGCAGATTGACCTCTCCGTCCCTTGAAGGTTCCAGGGCTGCCTATGTGAG
ATCAGTATGTGAAGCTGGAGGAGGAGCGGCGGCACCGGCAGAAGCTGGAGAAGGACAAGAGGAGGAAAAAGAGGA
AGGAGAAGGAGAAGAAGGGCAAGCGCCGCCACAGCTCGTGGCCACGGAGAGCGACGAGGACATCGCCCTGCCC
AGCAGGTGGACATCGTCACAGAGGAGATGCCTGAGAATGCTCTGCCAGCGACGAGGATGACAAAGACCCCAAGC
ACCCCTACAGGGCTCTGGATATTGACCTGGATAAGCCCTTAGCCGACAGCGAGAACTGCCTATTGAGAAACACA
GAAACACCGAGACCTCAAAATCCCTGAGAAGGACGTTCCCATGGTAGAAAAGAAGAGCAAGAAACCCAAGAAGA
AAGAGAAAAACACAAAGAGAAAGAGAGAGACAAGGAGAAGAAGAAGGAGAAGGAGAAGAAGAAATCTCCCAAGC
CTAAGAAGAAGAAACACAGGAAGGAGAAGGAGGAGCGGACCAAGGCAAGAAGAAGTCCAAGAAGCAGCCTCCAG
GCAGCGAGGAGGACGCGGGGAGCCGGTGCAGAATGGCGGCCAGAGGAGGAGCAGCTCCCGCTGAGTCCAGCT
ACTCCCTCTCGCTGAAAATTCTATGTTAAATGACCTGTGACATCCGGGGCAGTCTGCAGGAGGACAGCCAGG
TCACTGTGGCCATCGTCTGGAGAACAGGAGCAGCAGCATCTCAAGGGCATGGAGCTCAGCGTGTGGACTCAC
TCAATGCCAGGATGGCCCCGGCCGAGGGCTCTCCGTCCACGATGGCGTCCCCGTGCTTTCCAGCTGCCCCAG
GCGTCTCCAACGAAGCCAGTATGTGTTACCATCCAGAGCATCGTCATGGCGCAGAAGCTCAAGGGGACCCGTGT
CCTTCATTGCCAAGAATGACGAGGGTGCACCCACGAGAAGCTGGACTTCAGGCTGCACTTCAGCTGCAGCTCCT
ACTTGATCACCCTCCCTGCTACAGTGACGCTTTGCTAAGTGTGGAGTCTGGGACTTGAGCATGAGCTCAA
TCAAGTCGATGGCATTCCGATGTCCTTCCAGAATCTTCTGGCGAAGATCTGTTTTACCACCATTTTCCGTTG

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FIGURE 5148B

TGGAGCGAGTGGACTCCTGCGCCTCCATGTACAGCCGCTCCATCCAGGGCCACCATGTCTGCCTCCTGGTGAAAA
AGGGTGAGAACTCTGTCTCAGTCGACGGGAAGTGCAGTGACTCCACGCTACTGAGCAACTTGTTAGAAGAGATGA
AGGCGACGCTGGCCAAGTGTTGAGAGCTGCCTGCGAGCCCCGCACCACCCCGCGGAGCACGTACCCAGGGACCGC
AGCCCTGACGTGTCTCGCCTCTCCTCAGTCGTGTGTACTGTACCCAAGCCTGAGTGTTAATTTAACTCTATGTTG
TCCGCCGTGTAGACATCCGAGGTCATTTGTTGCGTTGAATTATCTGACCATCCTTTTTTACTGTGACTCTTCCCA
TTCTCTTTGGCAAGAAGTCCCCCTTCTCGCCCCAAACCAGCAAGGGACTCCCCACCTGGGTCTGTGCCCTGCC
CGCGCTGGGGGCGAGTCCTTGAATGTGGCTTCAGGGGCTCCTGTCTGGGCCAGGGCCTGATGGGCACCACGTG
AGGGGCACCTTGGTGGACAGGGCGGGGCTGACGTGGCCTCCTCTGGGGTCGCCTGCTTTTGACCCAAAGGTCCTGA
CGGTTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTGCCAAGGTTTTCTCTCCAGAACCCACAGTGGGAAAG
CGGCTTGCCAGGCGTTGTCCATTGTCAGTGTGCTCGTGGGCTGGTGACTGGGTCTTGGGATCCAGGCCACGCG
CCAGCCAGGCTGTGGGCAGGGCGGGGCCAGGGACGCCAAAGAGAGGTTGCAGTCAGAACCGTGGACGGGGTGGGT
TGAGGCCTCTCTGCCACCCGTCTTCTGCTCAGCAGAAGTGCATCTCGGCTTGGGTTTGGGGTGGTCCGCATCCC
CTGCTTGCCACTATGCGCACCAAGGTTTCCCCACATCCTTCCAGCACCCCTAGGAAGGCCAGGCAGGGCCTGG
AAGCAGCGGACCTGGGCTGTTCTGTGTTGAAGGAGTGTGCCCAGTGCCCTTGGGCAGGACCTGTGAGAGCCACCT
CACAGGCAGAGCCCCACCAGGCAGGGCAAGGAGACTCCGCTCACTCCCCACGGCCAGCGTGGGCACAGGACTGA
CCCTTCTTCAGAGATAATGACATTTTATCTTCTCCTTTTGATGAAAAGTGTCACTTTAGCATGTAATCCATTACA
GAATCCCATGCAGTGATTCCAGGATTTGAAATTGTATGATGTGTACATAAGAATTTATTTGCTATCGACATTCC
CGTATAAAGAGAGAGACATATCACGCTGCTGTCATGATTTTGTGTCAAGATGATCCAATAAAGTTGTAAACAGG

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FIGURE 5149

MALKMVKGSIDRMFDKNLQDLVRGIRNHKEDEAKYISQCIDEIKQELKQDNIAVKANAVCKLTYLQMLGYDISWA
AFNIIIEVMSASKFTFKRIGYLAASQSFHEGTDVIMLTINQIRKDLSSPSQYDTGVALTGLSCFVTPDLARDLAND
IMTLMSTKPYIRKKAVLIMYKVFLKYPESLRPAFPRLKEKLEDDPGVQSAAVNVICELARRNPKNYLSLAPLF
FKLMTSSTNNWVLIKIIKLFGALTPLEPRLGKKLIEPLTNLIHSTSAMSLLYECVNTVIAVLISLSSGMPNHSAS
IQLCVQKLRILIEDSDQNLKYLGLLAMSKILKTHPKSVQSHKDLILQCLDDKDESIRLRALDLLYGMVSKKNLME
IVKKLMTHVDKAEGTTYRDELLTKIIDICSQSNYQYITNFEWYISILVELTRLEGTRHGHLLAAQMLDVAIRVKA
IRKFVQSMSALLDSAHLLASSTQRNGICEVLYAAAWICGEFSEHLQEPHHTLEAMLRPRVTTLPGHIQAVYVQN
VVKLYASILQQKEQAGEAEGAQAVTQLMVDRLPQFVQSADLEVQERASCILQLVKHIQKLQAKDVPVAEEVSALF
AGELNPVAPKAQKKVPVPEGLDLDAWINEPLSDSESEDERPRAVFHEEEQRRPKHRPSEADEEELARRREARKQE
QANNPFYIKSSPSPQKRYQDTPGVEHIPVVQIDLSVPLKVPGLPMSDQYVVKLEEERRHRQKLEKDKRRKKRKEKE
KKGKRRHSSLPTESDEDIAPAQQVDIVTEEMPENALPSDEDDKDPNDPYRALDIDLKPLADSEKLP IQKHRNTE
TSKSPEKDVPMVEKKSKPKKKEKKHKEKERDKEKKKEKEKKKSPKPKKKKHRKEKEERTKGKKKSKKQPPGSEE
AAGEPVQNGAPEEEQLPPESSYSLLAENSYVKMTCDIRGSLQEDSQVTVAIVLENRSSILKGMELSVLDSLNAR
MARPGSSVHDGVPVFPQLPPGVSNEAQYVFTIQSIVMAQKLKGTLSFIAKNDEGATHEKLDLFRHFSCSSYLIT
TPCYSDAFAKLLESGDLSMSSIKVDGIRMSFQNLAKICFHHHFSVVERVDSASMYSRSIQGHHVCLLVKKGEN
SVSVDGKCSDSLNSNLEEMKATLAKC

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FIGURE 5150A

CGGGCCGTCCACTGGACTCCTGCGCCATATCCTGCAGCAGGTCTACAACCACTCGGTGACCGACCCCGAGAAGCT
CAACAACCTACGAGCCCTTCTCCCCGAGGTGTACGGGGAGACCTCCTTCGACCTGGTGGCCAGATGATTGATGA
GATCAAGATGACCGACGACGACCTGTTTGTGGACTTGGGGAGCGGTGTGGCCAGGTCTGTCTCCAGGTTGCTGC
TGCCACCAACTGCAAACATCACTATGGCGTCGAGAAAGCAGACATCCCGCCAAGTATGCGGAGACCATGGACCG
CGAGTTCAGGAAGTGGATGAAATGGTATGGAAAAAGCATGCAGAATACACATTGGAGAGAGGCGATTTCCTCTC
AGAAGAGTGGAGGGAGCGAATCGCCAACACGAGTGTTATATTGTGAATAATTTGCCTTTGGTCTGAGGTGGA
TCACCAGCTGAAGGAGCGGTTTGCAAACATGAAGGAAGTGGCAGAATCGTGTCTCGAAACCCCTTTCACCTCT
GAACTTCAGAATAAACAGTAGAACTTGAGTGACATCGGCACCATCATGCGCGTGGTGGAGCTCTCGCCCTGAA
GGGCTCGGTGTCTGTGGACGGGGAAGCCAGTCTCTACTACCTGCACACTATCGACCGCACCATACTTGAAAACTA
TTTTCTAGTCTGAAAAACCCAAAACCTCAGGGAGGAACAGGAGGCAGCCCGGCGCCGACGAGCGCGAGAGCAA
GAGCAACGCGGCCACGCCCTAAGGGCCAGAGGGCAAGGTGGCGGCCCCGCGACGCCCCATGGACTCTGG
TGCTGAGGAAGAGAAGCGGGAGCAGCCAGTGAAGAAGCCGTCTCCCTCCAAAGCCCGCAAGAAGAAGCTAAA
CAAGAAGGGGAGGAAGATGGCTGGCCGCAAGCGCGGGCGCCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAA
GCCCCAAGAAGAACCAAACTGCACTGGATGCCCTGCACGCTCAGACCGTGTCTCAGACGGCGGCTCTCTACCCCA
GGATGCTACAGATCCCCCTACAGCCCGTTCTACCAGCTACCTCCGAGCGTGCAGCGGCCTCTCCCCAACCCGCT
GCTGGTGGCGCCCAACCCGCGCTGCAGAGCTTCTAGAGTCTTCAAGATCCAGTACCTGCAGTTCTTGGC
ATACACAAAGACCCCCAGTACAAGGCCAGCTGCAGGAGCTGCTGGGCCAGGAGAAGGAGAAGAACGCCAGCT
CCTGGGTGCGGCTCAGCAGCTCTCAGCCACTGCCAGGCCAGAGGAGGAGATCAGGAGGCTGTTTCAGCAAAA
ATTGGATGAGCTGGGTGTGAAGCGCTGACCTACAACGACCTGATTCAAGCGCAGAAGGAGATCTCCGCCATAA
CCAGCAGCTGCGGGAGCAGTCGGAGCAGCTGGAGCAGGACAACCGCGCGCTCCGCGCCAGAGCTGCAGCTGCT
CAAGGCTCCTGCGAGGAGCTGCAGCTGGACTGGGCCACGCTGTCGCTGGAGAAGCTGTTGAAGGAGAAGCAGGC
CCTGAAGAGCCAGATCTCGGAGAAGCAGAGGCCTGCTGGAGCTGCAGATCAGCATTGTGGAGCTAGAGAAGAG
CCAGCGGCAGCAGGAGCTCTGCAGCTCAAGTCTGTGTGCCCTGACGACGCCCTGTCCCTGCACCTGCGTGG
GAAGGGCGCCCTGGGCCGCGAGCTGGAGCCTGACGCCAGCCGGCTGCACCTGGAGCTGGACTGCACCAAGTTCTC
GCTGCCTCACTTGAGCAGCATGAGCCCGAGCTCTCCATGAACGGCCAGGCTGCTGGCTATGAGCTCTGCGGTGT
GCTGAGCCGGCCTTCGTGGAAGCAGAACACGCCCCAGTACCTGGCCTCACCCCTGGACCAGGAGGTGGTGCCTG
TACCCCTAGCCACGTGCGCCGCGCGCTGGAGAAGCTGTCTGGCCTAGCCGCACCCGACTACACTAGGCTGTC
CCCGGCCAAGATTGTGCTGAGCGGCACCTGAGCCAGGACCACACGGTGCCCGGAGGCGGCTGCCAGTGAGCT
GCATTGAGAGCTGAGCACACCAAGGAGAACGGCCTTCCCTACCAGAGCCCCAGCGTGCCTGGCAGCATGAAGCT
GAGCCCTCAGGACCCGCGGCCCTGTCCCTGGGGCCTTGAGCTTGTGGAGAGAAGAGCAGTGAGAAGGGCCT
GAGAGAGCGCGCTACGGCAGCAGCGGGGAGCTCATCACCAGCCTGCCATCAGCATCCCGCTCAGCACCCTGCA
GCCCCAACAGCTCCCGGTGAGCATTCCCTGGCCAGCGTGGTGTGCCAGCCGCGCCGAGAGGGCGAGGAGCAC
CCCCAGTCCCGTGTGCAGCCCCGTGACCCCTCGTCCACACTGAAAAGCAGATTGGTGCTAATGCCACGGTGC
TGGGAGCAGAAGCCTTGCCCTGGCCCCGCGAGGCTTCTCTACGCTGGCTCGGTGGCCATCAGCGGGGCTTGGC
GGGAGCCCCGCTCTCTCACACCTGGAGCCGAGCCGGCCACCTGGATGAGTCTCCAGCTCTGGAGCCTTTT
TGCCACCGTGGGGTCCCGCAGCTCCACGCCACAGCACCCCTGTGCTGGCACAGCCCCGGAACCTGCTTCTGCTG
CTCTCCCGCCCCACAGCTCTCTCCAGTCCCCGCTTGGTGGGGCGCCAGGGCCGTTGCCCGAGGCCAGCAA
GGGAGACCTGCCCTCCGATTCCGGCTTCTCAGATCTGAGAGTGAAGCCAAGAGGAGGATTGTGTTACCATCAC
CACTGGTGGGGCAGTGCCAAGCAGTGCCTTCCAGCAAGCACAGCCCCCTGACCGCCAGCGCCCGTGGGACTG
TGTGCCGAGCCACGGGCAGGACAGTCGAGGCGCGGCCGCGGAAGCGAGCATCTCGGGGACGCCAGCTTGAG
CGCAGGCGTGTCCCCAAGCGCCGAGCCCTGCCGTCCGTGCTGGCCTTTTACACAGCCTTCGGGGTCTCCCT
CAACCTCAACTCCATGGTCAGTAACATCAACCAGCCCCGAGGATTACAGCCATCTCGTCCCCGAGACCTCCCT
GAAGAGCTCCCTGTGCCCTACCAGGACCAGCAGCCCCCGTGTCAAGAAGGAGCGGCCTCTGAGCCAGAC
CAATGGGGCACACTACTCCCCACTCACCTCAGACGAGGAGCCAGGCTCTGAGGACGAGCCAGCAGTGTGCAAT
TGAGAGAAAAATTGCAACAATCTCTTAGAAAGCAAATCTCCCCGAAAACCTTGAAAATGGTGGTGGCTTGGC
GGGAAGGAAGCCCGCGCCCGCGGCGAGCCAGTCAATAGCAGCAAGTGGAAGTCCACCTTCTCGCCCATCTCCGA
CATCGGCTGGCCAAGTCGGCGGACAGCCGCTGCAGGCCAGCTCCGCCCTCAGCCAGAACTCCCTGTTACGTT
CCGGCCCCCTGGAGGAGCCCTCTGCCGATGCCAAGCTGGCCGCTACCCAGGAAAGGCTTCCCGGCTCCCT

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FIGURE 5150B

GTCTGGGGGCTGACGGACTCAGCCCGGGCACCAACCCTGCCAACGGCTGCACCTTCGGCGGGGGCCTGGCCGCGGA
CCTGAGTTTACACAGCTTCAGTGATGGTGCTTCTCTTCCCCACAAGGGCCCCGAGGCGGGCCGGCCTGAGCTCCCC
GCTGAGCTTCCCCTCGCAGCGCGGCAAGGAGGGCTCGGACGCCAACCTTTCTGAGCAAGAGGCAGCTGGACGG
CCTGGCTGGGCTGAAGGGCGAGGGCAGCCGCGGCAAGGAGGCAGGGGAGGGCGGCCTACCGCTGTGCGGGCCCAC
GGACAAGACCCCCACTGCTGAGCGGCAAGGCCGCCAAGGCCCGGACCGCGAGGTCGACCTCAAGAATGGCCACAA
CCTCTTCATCTCTGCGGGCGCGTGCTTCCCGGAAGCCTCCTCAGCGGGCCCCGGCCTGGCCCCGGCGGCGTCTCTC
CGCAGGCGGCGCGGCGTCTCTCCGCCAGACGCACCGGTCTTCTGGGGCCCCCTTCCCGCCGGGACCGCAGTTTCG
GCTCGGGCCCCATGTCCCTGCAGGCCAACCTCGGCTCCGTGGCCGGCTCCTCCGTGCTGCAGTCGCTGTTTCAGCTC
TGTCGGGGCCGCGCAGGCCCTGGTGACGTGTCTGCTCCGCTGCCACCAGACTGACCAACTCGCACGCCATGGGCAG
CTTTTCCGGGGTGGCAGGCGGCACAGTTGGAGGTAAGTAGATTCTACCTCAACCGCGAGACCTATGCAAGGAC
GGTGTGGACCAACTCGCGCCCGCGGCATGGTGCCCGCGGCTCGCCGGGCTCCCACCCCTGGACGGCAGAGGCAA
GGACGGACGGGAGCTCCACTGTGAATCGGCGGCACGCGCCGCAGGAGGCTGGGACTGGTCCAGTTTGTACTGTCTG
ATAGTTTTAGATAAAGTATTTATCATTTTTTAAAAAGTATAACAATTCTGACTTATTTTATTCCATCTAAGTGG
TAAAGGCAACTTATTGAGAAATATAAATATCTATATATGAGAGCTCTATATAAAGACACGTGTCTGCAGGGCGG
GCCCCGCCAGCGGATTGCCCCACAGCCTGCCCCGGTGCTATCTCGTCCCCAGGCCCGCGCCTGCCTCCACCCGCTTG
GTGCTGACTAGACGCTGACAACGCCGAACCCCGTTCTCGGAAACGCCGCCCGGGCCGGCTCCCCCGACGCGCTGCT
CCCGTACCAAAGGCAGGCCCGTCGCCACCACATTCTCGGAGGCCTCCCCGCGGCTGAGCCCTTCTGAGCGC
CCTGGCGCTGCGCTGAGCTCTTACCTTTACCCCGGCACTGTGAACCCCAAGACTGTTACCCCTCCGGGGCGTG
GGTTGCGCCCTTGCAATGTGAAGGGGCTGCGCGGTGACGCAGCTGGCCATGTGCTGCGCGATGGTGTCTGAGGA
CGGCGCGGGCACGTTGAACAAGTGCAATTTACTTTTGTATTTCTCGGCTGTCCATGGCTCGCAGCATGCCCTGCGA
TGCGGGGCGAGGCTGTCTGTTGGTCCCTTGGTGTCTGTACAGGAGAGAGTCACACTAATGAGTGGCAGTATTTT
ATAGAGATGTGATGAGAATTTATAAATTTATAGATTTGACAGCTTTTATTTTATAGATGGTATAATGCACAGTGA
AGAGGAAAGAAAAGCGAGGGGAAAAACCTTATTTATTCAAACAGTGACAAAATGGCCCCAGCGTCAGCCCCGA
CCCTAGACCCCTCAGTTGCAGCTCCAGCAGCCAGACAGAGCTGCCGGCGCCCTGCCTGCCCCACATCCCTTC
CTGTCAGGGCCACGCCTGGCACCCATCCCTTGGAGCCTGTGCTGGTTCTCCAGCTGCTGTGGGTGTGCTGGGGC
CAGGGTGCAGTGTGAAACCTGGCCTCTCTGGCCCTAGGCCCCAGGGTGACGTCGGCCCCCACTCTGCAGCCTT
GGCGGGTGCTGGGACTGGGTGTGGAAGGAGAGGAGCTGAGGCCGGGTGTAGCAGGCAGGCAGGGCCACTCCAG
TGCTTCTGGAGCCCTGAGCAGTCAGGGCCTGGGTGTCTGAGCAGTGGTGGCTCTGTGCCCTCCCTGGAGGATGG
GATCTGGGA

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FIGURE 5151

MIDEIKMTDDDLFVDLGSGVGQVVLQVAAATNCKHHYGVKADIPAKYAEITMDREFRKWMKWYGKKHAEYTLERG
DFLSEEWRRERIANSTSVIFVNNFAFGPEVDHQLKERFANMKEGGRIVSSKPFAPLNFRINSRNLSDIGTIMRVVEL
SPLKGSVSWTGKPVSYLHTIDRTILENYFSSLKNPKLREEQEAAARRRQRESKSNAATPTKGPEGKVAGPADAP
MDSGAEEEEKAGAATVKKPSKARKKKLNKKGRKMAGRKRGRPKKMNTANPERKPKKNQTALDALHAQTVSQTAA
SSPDQDAYRSPHSPFYQLPPSVQRHSPNPLLVAPTTPPALQKLLESFKIQYLQFLAYTKTPQYKASLQELLGQEK
NAQLLGAAQQLLSHCQAQKEEIRRLFQQKLDELGVKALTYNDLIQAQKEISAHNQQLRESEQLEQDNRALRGQS
LQLLKARCEELQLDWATLSLEKLLKEKQALKSQISEKQRHCLELQISIVELEKSQRQQELLQLKSCVPPDDALS
HLRGKALGRELEPDASRLHLELDCTKFSPLPHLSSMSPELSMNGQAAGYELCGVLSRPSSKQNTPOYLASPLDQE
VVPCTPSHVGRPRLEKLSGLAAPDYTRLSPAKIVLRRHLSQDHTVPGRPAASELHSRAEHTKENGLPYQSPSVPG
SMKLSPPQDPRPLSPGALQLAGEKSSEKGLRERAYGSSGELITSLPISIPSTVQPNKLPVSIPLASVVLPSRAER
ARSTPSPVLQPRDPSSTLEKQIGANAHGAGSRSLALAPAGFSYAGSVAISGALAGSPASLTPGAEPATLDESSSS
GSLFATVGSRSSTPQHPLLLAQPRNSLPASPAHQLSSSPRLGGAAQGPLPEASKGDLPSDSGFSDEPESEAKRRIV
FTITTGAGSAKQSPSSKHSPLTASARGDCVPSHGDQSDRRRGRKRASAGTPSLSAGVSPKRRALPSVAGLFTQPS
GSPLNLNSMVSININQPLEITAISSPETSLKSSPVYQDHDQPPVLKKERPLSQTNGAHYSPLTSDEEPGSEDEPS
SARIERKIATISLESKSPKLTLENGGGLAGRKPAAPAGEPVNSSKWKSTFSPISDIGLAKSADSPLQASSALSQNS
LFTFREALEEPSADAKLAHPRKGFPGSLSGADGLSPGTNPANGCTFGGGLAADLSLHSFSDGASLPHKGPEAAG
LSSPLSFPSQRGKEGSDANPFLSKRQLDGLAGLKGEGRGKEAGEGGLPLCGPTDKTPLLSGKAAKARDREVDLK
NGHNLFIISAAVPPGSLLSGPGLAPAASSAGGAASSAQTHRSFLGPFPPGPQFALGPMQLQANLGSVAGSSVLQS
LFSSVPAAAGLVHVSSAATRLTNHAMGSFSGVAGGTGGVFNHAVPSASAHFPGARVGRGAACGSATLGPSPQLQ
AAASASASSFQAPASVETRPPPPPPPPPLPPPAHLGRSPAGPPVLHAPPPPNALPPPTLLASNPEPALLOS
LASLPPNQAFLPPTSAAASLPPANASLSIKLTSLPHKGARPSFTVHHQPLPRLALAAQAAPGIPQASATGPSAVWVS
LGMPPPYAAHLSGVKPR

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FIGURE 5152

GGCACGAGGCTTTCTTTGCCCCGCGTTGCGCAAACGAAGTCGTGGAGGTGGCGAAACGAGGAGGAGATAACGCGG
CCTTGGGCTCTGGTGTCTCCAGTCTGCTAAAGCCCTAAGGCCATCACCATGGACTTCCAGCATCGCCCCGGGGG
CAAGACCGGGAGCGGGGGCGTGGCTCCTCCTCCGAGAGCAACCGTGACCGCAGGGAGCGCCTCCGGCAGCTGGC
CCTGGAGACCATCGACATCAACAAGGACCCGTACTTCATGAAGAACCACCTGGGCTCCTATGAATGAAACTCTG
CCTGACACTTCACAACAATGAGGGGAGCTACCTGGCACATACGCAGGGGAAGAAGCACCAGACCAACCTGGCCCG
GCGAGCAGCCAAGGAGGCCAAGGAGGCCCCTGCCAGCCCGCGCCTGAGAAGGTCAAGGTGGAGGTGAAGAAGTT
TGTGAAGATCGGCCGCCCCGGGCTACAAAGTGACCAAGCAGAGAGACTCGGAGATGGGCCAGCAGAGCCTCCTCTT
CCAGATTGACTACCCTGAGATCGCCGAGGGCATCATGCCACGTACCGCTTCATGTCTGCGTACGAGCAGAGGAT
CGAGCCTCCGACCGGCGCTGGCAGTACCTGCTCATGGCCGCCGAGCCCTACGAGACCATTGCCTTCAAGGTGCC
GAGCAGAGAGATCGACAAGGCGGAGGGCAAGTTCTGGACACACTGGAACCGGGAGACCAAGCAGTTCTTCTCTCA
GTTCCACTTTAAGATGGAGAAGCCCCGGCTCCACCAGCCTCCCTGCTGGCCCCCCTGGGGTGAAGCGGCCTCC
ACCCCCGCTGATGAACGGTCTGCCCCCTCGGCCACCCTGCCTGAGTCTTTGCCACCGCCCCCGCCAGGAGGCCT
GCCTCTGCCACCCATGCCCCCACAGGGCCTGCGCCCTCAGGGCCCCCGGGACCACCCAGCTACCCCCGCCAGC
TCCAGGGGTCCACCCCCCGCCCCAGTGGTGCATCCCCCTGCATCTGGGGTCCATCCCCAGCTCCTGGCGTCCA
CCCCCAGCTCCTGGCGTCCATCCCCAGCCCCCTGGGGTCCACCCACCAACCTCTGGGGTCCACCCCCAGCTCC
TGGAGTCCACCTCCAGCCCCCGGGTTACCCACCAGCCCCCGGAGTCCACCCACCAGCCCCCTGGGGTTCACCC
ACCAGCCCCAGGGGTCCATCCTCCCCATCAGCGGGGTTACCCCCAGGCCCCGGGGTGCACCCAGCAGCCCC
CGCCGTTACCTCAGGCCCCAGGGTGCACCCACCAGCCCCAGGGATGCACCTCAGGCCCCGGGGTTCACCC
CCAACTCCCGGGTCCATCCGTCGGCTCCTGGGGTCCACCTCAGCCTCCGGGAGTTCACCCCTCAAATCCTGG
GGTGACCCCCCAACTCCCATGCCCCAATGCTGAGGCCCCACTTCCCTCCGAAGGCCAGGGAACATACCTCC
CCCTCCCCCAACCAACTGAGAAGCTGCTCCCTCCCCAGCAAGCCAGCGCCAGGTGCTCTTGCTTTTCCCACT
GAGAGAAGGCTGCTCTTTGTACTGCCCCCGCTCATTAAACAGCCTCCCCCAAAAAAAAAAAAAAAAAA

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FIGURE 5153

MDFQHRPGGKTGSGGVASSSESNRDRRLRQLALETIDINKDPYFMKNHLGSYECKLCLTLHNNEGSYLAHTQG
KKHQTNLARAAKEAKEAPAPAPAEKVKVEVKFVKIGRPGYKVTQORDSEMGQQSLLFQIDYPEIAEGIMPRHR
FMSAYEQRIEPPDRRWQYLLMAAEPYETIAFKVPSREIDKAEGKFWTHWNRETKQFFLQFHFMEKPPAPPSLPA
GPPGVKRPPPLMNGLPPRPPLPESLPPPPGGLPLPPMPPTGPAPSGPPGPPQLPPPAPGVHPPAPVVHPPASG
VHPPAPGVHPPAPGVHPPAPGVHPPTSGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPSAGVHPQ
APGVHPAAPAVHPQAPGVHPPAPGMHPQAPGVHPQPPGVHPSAPGVHPQPPGVHPSNPGVHPPTPMPPMLRPPLP
SEGPNI PPPPTN

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FIGURE 5154

TGCGAACGGCGAGCAGCGGGCGGGCGGGGAGAGACGCAGCGGAGGTTTTCTGGTTTCGGACCCAGCGGCCGG
ATGGTGAAATCCTCCCTGCAGCGGATCCTCAATAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGATAAACCAGC
GCCACCATCCACGCCAGCCGACCATGCCGCTCCTTAGCCTGCACAGCCGCGGGCAGCAGCAGTGAGAGTTCC
AGGGTCTCCCTCCACTGCTGTAGTAACCCGGGTCCGGGGCCTCGGTGGTGCTCCTGATGCCCCACCCACCCCT
GAAGATCCCAGGTGGGCGAGGGAATAGTCAGAGGGATCACAATCTTTCAGCTAACTTATTCTACTCCGATGATCG
GCTGAATGTAACAGAGGAACTAACGTCCAACGACAAGACGAGGATTCTCAACGTCCAGTCCAGGCTCACAGACGC
CAAACGCATTAACTGGCGAACAGTGCTGAGTGGCGGCAGCCTCTACATCGAGATCCCGGGCGGGCGCTGCCCGA
GGGGAGCAAGGACAGCTTTCAGTTCTCCTGGAGTTCGCTGAGGAGCAGCTGCGAGCCGACCATGTCTTCATTG
CTTCCACAAGAACCGCGAGGACAGAGCCGCCTTGCTCCGAACCTTCAGCTTTTGGGCTTTGAGATTGTGAGACC
GGGGCATCCCCTTGTCCCAAGAGACCCGACGCTTGCTTCATGGCTACACGTTCGAGAGAGAGTCTTCGGGAGA
GGAGGAGGAGTAGGGCCGCCTCGGGGCTGGGCATCCGGCCCTGGGGCCACCCCTTGTCAGCCGGGTGGGTAGGA
ACCGTAGACTCGCTCATCTCGCCTGGGTTTGTCCGCATGTTGTAATCGTGCAAATAAACGCTCACTCCGAATTAG
CGGTGTATTTCTTGAAGTTTAATATTGTGTTTGTGATACTGAAGTATTGCTTTAATTCTAAATAAAAATTTATA
TTTTACTTTTT

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FIGURE 5155

ACCATTCTGATGTTGGAGCGGCCTCGGTCCGGTTGACTTTGCGGACATGGAGGGCGGCTTCGGCTCCGATTTCGG
GGGCTCCGGCAGCGGGAAGCTGGACCCAGGGCTCATAATGGAGCAGGTGAAAGTGCAGATCGCCGTGGCCAACGC
GCAGGAGCTGCTGCAGAGGATGACGGACAAGTGTTTCCGGAAGTGATAGGGAAACCTGGGGGCTCCCTGGACAA
CTCCGAGCAGAAGTGCATCGCCATGTGCATGGACCGCTACATGGACGCCTGGAACACCGTGTCTCGCGCCTACAA
CTCGCGGCTGCAGCGGGAACGAGCCAACATGTGACCGGCGAGCGCGGGGCCACCCACCCGTTCATTTCCATAAA
CGTGCTTTGAGAGGCGGGGTCCGCATGTACGTACTGCCTGCCCGGGGCTTAGGAGGGTGGCACCGGTGCTGGGAC
ACACGGGACTGTGTCTCGCCACCCCGCCCTGCCCTGCCAGCCAGTGCAGCTTGGATCTCGGGGGTGTGGG
GCCCTGTGCCTTCCTGAAGTGCTGGCAGCCAGTGGCACCTCCTTCAGGCCTTTGGGGTATTCCCCTAGTGTGCC
CAAGTCAGCCTCATATTCTGGGCGGACAGCTTGTCTGGACTTCGGAGTTGGGGGTGGTCAGACACCACAGGAGCT
GTCACCTCCTGCGGATGGGCAAATAAATTGGTGGAGGACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 5156

MEGGFGSDFGGSGSKLDPGLIMEQVKVQIAVANAQELLQRM₁TDKCFRKCIGKPGGSLDNSEQKCIAMCMDRYMD
AWNTVSRAYNSRLQ₂RERANM

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FIGURE 5157

GGCACGAGGCCTCGTGCCGTTTTAATGGATATTTATTTTTTTTACATTGGTCAGTACACAGGTCAGGAGCTCACGC
CAGGGCCTTGAGGACAGGCTGACCCCTCCTCCCGGGGTGGCGTGGGGCTGGGGCACCCCTCCGACGGCAGAGCCTC
CTTCAGAAAGTGCAGCTCAAGTCTTAAAGACACCAAACTGAGCCATGGGCACGCGCCGCTCTCCGGGCCATGGCG
TTCACTGCAGGGCGGGGCGGCACCGCTCCCTGTGACTGCATCCCGCCTCCCTGGGGACCTGCCTGTGGCAGGA
AGGAATGGGGGGCCCCAGCCCCAGGCCGGGAAGGAGCCAGCGCCGACAAAGCAGAAACACCCGCTGCTCCACGT
AGCCCCTGCTCGCTGTCTTGTCTCTCAGAAGTCCCGGTCCCATGTAGATAGAGGGGGGCGCATCTTACCAAAGCA
TTTCTCTGGAGGCTACGCCGCTGTGCTCCAGTCAGGCGGTGGTAGGGAGCTTTGCCTGCCCCGGGGATACC
CTCTGCCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCTCTTTCCACCTTCATAGCAGGAATCACC
CGGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTCTGGGGGTGGGTCTTGGTGATCTTGTCTATGGGGAGT
CTGCAGTGGTCTCAGCCACATCCTATGTATTTTGGCTCTGGAGGAGCAAAGCTGTATCCTGGAGTTGGTCTGTGA
TTTGCCGACAGCCCTTGAGGCTGGGCTCAGGGACAAAGTCCCCCCCCAAAACCCGAGGTCTCATGTCCAGACGC
TGCCAGTCCCTGTCTGAAAACAGCACGCCCCAGGCCACAGAACCCCCACCTACATTTGCCTTGGGTGGAGC
TGGGGGTGGTCTAGGACTGCGGGTGCCCTTAGCTGAAGGGGGTGGGGAGAAGCGTGGACTGGGCAGCCTGTGGG
TAATTGGAGGTTCAATTGAGAATTGAGTCTTTGAAAACACTAAGAAAATCAAATTTTTAAAAGTTATTTATGGCCT
GGGAAACAATTTGCATTTGTCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGCGAAACCATCCCTCTGT
GTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACCCAGCCCTGGGGGGA
GGCCACGCCTGCTGGACCAACGCGGGTTCTGGGGTGACAGCGCCAGGTTAACGCTGAAGCCTGCCCCGCTGAG
CCCAGGAGCCGGGAGGCCTGCGGGCTGACCCAGAATCCGATCATGCACCTGTCTCATGCCAGCGGCTTTGGCTG
GGGTTGGTCTGAAGCCTGCACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCCTCAGTCTTGGGGCGTCGCCG
CCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCTGGGCTGCAGCT
GGGGCTGGCATGGACTTTTCATTTAGAGATTCGGTTTTTAAGAAGATGCATGCCAATGTGTTCTTTTTTTTTTC
CAATGATTTGTAATATACATTTTATGACTGGAACTTTTTTGTACAACACTCCAATAAACATTTTGATTTTAAAA
AAAAAAAAAAAAAA

5597/6881
FIGURE 5158

MAFTAGRGRHRSPVTASRLPGDLPVAGRNGGPQPQAGKEPAADKAETPAAPRSPCSLSLLSEVPVPCR ..

5598/6881
FIGURE 5159

CGTCGGACTACCGTTGGTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTCCGCCTT
TTCTGGAAGGATTTTCGTGCTTCCCGAAGGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTTGGGCTCTCT
GGCTCGGATTTTGAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGAC
GCTGGAAGAGCTCGTGGCGTGCGACAACGCGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTT
GGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGA[~]CCAGA
CAGCGTGGTCCTCTGCCCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAATCCACTTCACGCT
CATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTGCGGCATGCAGCGCTGGCGCAGCTCCT
GGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTCTGGTCACGAACCTCACAC
GGACGCCGTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGGCAACAACCAAGTGGGT
CCCCATACATCTCTCTTCAGGAACGCTGAGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAAA
AATACAATAAATATTTGAACCCCTCCCCCCCAGCACAAACCCCAACCAACCCACGAGGACCATCGG
GGGAGAGTCGTTGGAGACTGAAGAGGAAGAGGAGGAGGAGAAGGGGAGTGAGCGGCCGCCCCAGGGCGGAGAT
CCAGGAGCTGGCGGCCGCCGATCCGATGGAGAAGGGGGACCCAGGCCAGCAGGAGACAGGACCCCGAAGCTGA
GGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTC
CACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGAGA
CTTGGTTGAACTTGGTTGGTCCTTGCTGCAACCTCGACAAGACCA[~]ACTTTGGGACTTGGGAGCTGGGGCTGAA
GTTGCTCTGIACCCATGAACTCCAGTTTGCGAATTATAGAGACAATCTATTTGTTACTTGCACCTTGTTATTCG
AACCCTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTATTCTACTATGAGGGCCTTGAATAAATTC
TAAAGCCTC

5599/6881
FIGURE 5160

GGGCAGGGGCGTGGGCGGGGCGTGGACCAGCCGCGCCGAGCGGGGCTCTCCGGGCGCGTCTGTGGGGTCGAGA
CTGCGCGGGCGTTGGGCGTGACGCGGCGCCAGTCGGCGGACGAGGGGCCCCCGGGAGTTGCTGGACTGAGACATG
AGCCTCCAACGTGTGTGTTGGGCTCGGTAGCACATCGTGGGACTTGGGTGTGCGCCACAGATGGTTTGGCCCTG
CAGTGACCAGAGCAGCCCAAGCCGCCACCATGGTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGT
TCTTCTTCATGCTGCTCGGCTCCCTGCTCCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCATCGCTCGA
AAAAGATCCTCTCTCTCTGCAACACCTTTGGAGGAGGGGTGTTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCCG
CTGTGAGGGAAAAGCTCCAGAAGGTCTTGAGCCTCGGCCACATCAGCACCAGCTACCCGCTGGCCGAAACCATCC
TCCTGCTGGGCTTCTTCATGACCGTCTTCCTGGAGCAGCTGATCCTGACCTTCCGCAAGGAGAAGCCGTCTTCA
TCGACCTGGAGACCTTCAACGCCGGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCCCTTCATGGGGGGCG
CGCGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGCGCGCCA
GCCCCGTGCGCTGCTCAGCCTGGCCTTCGCGCTGTGCGGCCACTCGGTCTTTGAGGGCCTGGCCCTGGGCCTGC
AGGAGGAGGGGGAGAAAGTGGTGAGCCTGTTCTGTTGGGGTGGCCGTCCACGAGACACTGGTGGCCGTGGCCCTGG
GCATCAGCATGGCCCGGAGTGCCATGCCCCCTGCGGGACGCGGCCAAGCTGGCGGTACCCGTAAGCGCCATGATCC
CCCTGGGCATCGGCCTGGGCCTGGGCATTGAGAGCGCCCAGGGCGTGCCGGGCAGCGTGGCGTCCGTGCTGCTGC
AGGGCCTGGCGGGCGGCACCTTCTCTTCATCACCTTCTGGAGATCCTGGCCAAGGAGCTGGAGGAGAAGAGTG
ACCGTCTGCTCAAGGTCTCTTCTGTTGCTGGGCTACACCGTCTGGCCGGGATGGTCTTCTCAAGTGGTGAG
CGGCCTCGCCATTGTCCCTGCGCGGAGCCCGCGGGAGCCCCGGGCGGACACAGGCCGCGTCCCCGGCCGC
GCGTCCCCCAAGAGCGAGCACTGTGGCCCTGGGCCACCACCTGTGCACAAGGGGCTCCCGGGACAGGCTGTGC
CCCCGATCCTACACCCTGAGCCTCAGAGCACTGCTACTTTTAAAATACTTCTTCTTTAAAGTCTTTACC

5600/6881
FIGURE 5161

GGGCGTCGCGCCCTGGGGCCGGGGCCGGGCGGCACCGCGGTGCGCAAGCGCAACCGTCGGTGGGTGCGGGATCGG
TCGCCTGAGAGGTATCACCTCTTCTGGGCTCAAGATGGACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTT
CCTGCATGACCAGCTCCGGCACGGGGGCTCTCGTCCGATGCTCAGGAGAGCTTGGAAAGTCGCCATCCAGTGCCT
GGAGACTGCGTTTGGGGTGACGGTAGAAGACAGTGACCTTGCGCTCCCTCAGACTCTGCCGGAGATATTTGAAGC
GGCTGCCACGGGCAAGGAGATGCCGCAGGACCTGAGGAGCCCCGCGCAACCCCGCCTTCCGAGGAGGACTCAGC
AGAGGCAGAGCGCCTCAAAACCGAAGGAAACGAGCAGATGAAAGTGGAACCTTTGAAGCTGCCGTGCATTTCTA
CGGAAAAGCCATCGAGCTCAACCCAGCCAACGCCGTCTATTTCTGCAACAGAGCCGAGCCTACAGCAAACTCGG
CAACTACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCAG
GATGGGCCTGGCGCTCTCCAGCCTCAACAAGCAGTGAGGAGCCGTGGCTTACTACAAGAAGGCTCTGGAGCTGGA
CCCCGACAACGAGACATACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCCAGCCCCACGGG
AGGCGTGGGAGCTTCGACATCGCCGGCCTGTGAACAACCTGGCTTCATGAGCATGGCTTCGAACCTAATGAA
CAATCCCCAGATTGAGCAGCTCATGTCCGGCATGATTTGCGGTGGCAACAACCCCTTGGGAACCTCCCGGCACCAG
CCCCTCGCAGAACGACCTGGCCAGCCTCATCCAGCGGGCCAGCAGTTTGCCAGCAGATGCAGCAGCAGAACCC
AGAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGCCAGCGCCAGCAACGACGACCAGCAGGAGTG
ACGCTGCCTGTCCCGGTGTGACCGCGTCTTCCCTGGCCGACCCGAAGGAAGCCTTCTGGTTGTCTGCCACTTC
CTCCTGTTGGACTGCCTGAGAGAGGGGAAGAGAGAGACCTCGGACCTGCATGTCAAGATGGATTTTCCCCTTTTA
TCTCTGCCCTCCTCCACTCCCTTTTGTAACTCCCTTACAGCCCCCAGACCCTTCTTGAAACGAGAGCCAGCAAG
CTGAGCACAGACCAGCAGCGACCTCCCTTCCAGCCCCCAGAAAGCTCGGTCACTTGAGTGTTTTCTAGAATCCTG
GGGTGCTCCCGGGCCGCTCTCAGAGAAGTGCCAGGTTTACGTTTCAGCCGTGTGGCGGATCGTGTGGCTTCCAAA
GCCTTTTACAGCCCCCGCCCCCATCCCGTGGTCTGTCTGCAGGAACTCTCCCGTCTGTGAGAAGCCTCTTTCCG
AGTCGACCTCCCGGCCACCCCGCCCTGTGCCTGCTCGGAAGAGCTCACTGCCAGCTGCGGCCTGGGCACCGCGG
GCCATGTGTGTTTGCATGAGGAACTCTTTAGTGGCAGACACCTAAGAGACGGCTGCGGTACCCCCACGCCTCCGC
GGCTCAGGAGCCGTCTGGGTGCATAGGACCAGTTTCTGTGACTTTTCTCCAGTTGGGCATGTTGACAGACATGT
TTCCCCTCCTCCACCCCTCATTTTCTGGTCTCTCGGACTGAGAGCCAGGGGCGACATCATGACCTTCTGTCCCGG
CCGCTTAGCCCCGGGCACAGGGAAGGCAGCTGGGCCGTTTCTGTCTGTGTCCCATCCTGCTGTCTTCTGTCTCT
GGATGTTTATGGGCCCCGGGGCCCCCAGGGAAGCTTACCCCTCCTGTGCTGGGTGGAGGCCACGGGACACCTCA
GGTGCCACCCACCTTGGCCCTAAAAACAGCCACCAGGAAAGCAGCCGGAGAGCCGGACAGCAGGCAGCCTGTCTGG
GTTCTGAGGCCTGGGGGTGGCAGACGAGCCACGGCGCCGTGGTCCCAGCAGCAGGGTTGTGAGTCGGAGCATC
CTGGGGCTCCCTGGCTCCTGGCCGTCTGTGAGGTAGGCGCAGTACCGTGTATCGTAGGTAGCAGTAGGAACGGG
GCCGCCGGGCCCTGCAGCCGCTCATGGCGGTGAGGTGTGTGCCAAGCCACCCGGGGTGCAGGGCGTGACGTGT
GGGAATAAATAGGCGTTGTGACCTCTAAAAAAAAAAAAAAAAA

5601/6881
FIGURE 5162

MDNKKRLAYAI IQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPEIFEAAATGKEMPQDL
RSPARTPPSEEDSAEAERLKTEGNEQMKVENFEAAVHFYGKAIELNPANAVYFCNRAAAYS KLGNYAGAVQDCER
AICIDPAYSKAYGRMGLALSSLNKHVEAVAYYKALELDPDNETYKSNLKIAELKLREAPSPTGGVGSFDIAGLL
NNPGFMSMASNLMNNPQIQQLMSGMISGGNNPLGTPGTSPSQNDLASLIQAGQQFAQQMQQONPELIEQLRSQIR
SRTPSASNDDQQE

5602/6881
FIGURE 5163

GTGGCGGCGGTTGGGCCGAGGCAGGCGGCCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG
GGAGCCGCGAGGCGCAGACCCACCCGCCATGAAGCCCCCGCAGCCTGTGCAGGAGACATGGCGGACGCAGCATCT
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGGCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATC
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCACCAGGAGTTTGAGGACGTGTCCTACGAGAGCACGCTCAAG
GCGCTGGCCGATGTGGAGGTACCTACACAGTTTACAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAGCTCTCTGAGTTGACGTGGAGATGAGCATGAGGGAG
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAGTTTCAAGGAGTCACTGAGGCCCGAGGCTGCGCGGTAC
CTGGAGCGGCTAATCAAGCTGGGCCGAGAAATGGGCTTACCTCCCCAGAGAGACTCAGGAAAACATCAAACGC
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCTGCCCTTC
ACGTCCAGGAGCTAGGAGGGCTCCCGAGGACTTTCTGAACCTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG
GTACCCCTCAAGTACCCCCATTACTTCCCCCTCCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTGGAG
GAGGCCCTTCAACTGCCGGTGCAGGAGGAGAACTGCCCTATCCTCAAGGAGCTGGTGACGCTGCGGGCCAGAAAG
TCCCGCTGTGTTGGGTTCCACACGCACGCCGACTATGTCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG
GCCACCTTCTAGATGAGCTGGCGCAGAAGCTGAAGCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG
AAGCGTGCGGAGTGCAGGCGCGGGGCTGCCCTTCGACGGCCGCATCCGTGCTGGGACATGCGCTACTACATG
AACCAGGTGGAGGAGACGCGCTACTGCGTGGACCAGAACCTGTCTAAGGAGTACTTCCCCGTGCAGGTGGTCACG
CACGGGCTGTGTTGGCATCTACCAGGAGCTCCTGGGGTGGCCTTCCACCACGAGGAGGGCGCCAGTGCCTGGCAT
GAGGACGTGCGGCTCTACACGCGAGGGACGCGGCCCTCGGGGGAGGTGGTCGGCAAGTTCTACCTGGACCTGTAC
CCGCGGAAGGAAAGTACGGGCACGCGGCTGCTTTGGCCTGCAGCCCGCTGCCTGCGGCAGGATGGGAGCCGC
CAGATCGCCATCGCGGCCATGGTGGCCAACCTTACCAAGCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCAGGCGGAGTTCGCCATGTTT
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCGTGCAGATGCTGGAGAACTGGGTGTGGGAGCAGGAG
CCGTGCTGCGGATGTGCGGCACTACCGCACAGGACGCGCGTGCCTGGGAGCTCCTGGAGAAGCTCATTGAG
TCCCGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCTCGCCAAGGTGGACCAGGCCCTGCACACG
CAGACGGACGCAGACCCCGCCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA
ACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGTACGACGCCCAGTACTACGGGTACCTGTGGAGCGAG
GTGTATTCCATGGACATGTTCCACACGCGCTTCAAGCAGGAGGGTGTCTGAACAGCAAGGTGGCATGGATTAC
AGAAGCTGCATCCTGAGACCCGCGGTCCGAGGATGCCAGCGCCATGCTGAGGCGCTTCTGGGCCGTGACCCC
AAGCAGGACGCCTTCTCTGAGCAAGGGGCTGCAGGTGCGGGGCTGCGAGCCCGAGCCGAGGTCTGCTGAGGC
CTGGCACTGCGACTGCCAGTCTGGCCTGCGCTCCCGCCGCCCTGGTGCCTAGCCCCCGGCACAGGATGGGGCA
GGCTCTGGCACAGTGCCTGGGACTGGCAGGGTGGCTGAGCGGCTGTCTTGCTCTTGTCAATTGTGTCCCCACC
CGGTCTGGGCCACCCGGCTAGAGACGGCGTCTCAAGGCATCTGAGGGGCTTTCGTGGCTGCCAGGGCCTGGTC
TTTGTGCACTAACACGTCTCTCTGGGAAACGTCCCTGTGAGGAGACGGCTCTTCTTTGAAATGAGGTCAT
TAAAGGAAAC

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FIGURE 5164

MKPPAACAGDMADAASPCSVVNDLRWDLQAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEVTY
TVQRNILDFFQHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYQRIVWLQEKVQKDSLRPEAARYLERLIKLGR
RNGHLHPRETQENIKRIKKKLSLLCIDFNKNLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLKVTLYKYPHYF
PLLKKCHVPETRRKVEEAFNCRCKEENCAILKELVTLRAQKSRLGFGHTHADYVLEMNMAKTSQTVATFLDELAQ
KLKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYMNVQVEETRYCVDQNLKEYFPVQVVTGGLGIYQE
LLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLYPREGKYGHAACFGLQPGCLRQDGSRQIAIAAMVA
NFTKPTADAPSLQHDEVETTFHEFGHVMHQICSAEFAMFSGTHVERDFVEAPSQMLENWWWEQEPLLRMSRHY
RTGSAVPRELLEKLIESRQANTGLFNLRQIVLAKVDQALHTQTDADPAEEYARLCQEILGVPATPGTNMPATFGH
LAGGYDAQYYGYLWSEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRRLGRDPKQDAFLLSK
GLQVGGCEPEPQVC

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FIGURE 5165

CTGGGGGGCTTTTCGGATCGGCAGGATGTACCCCCAGGGAAGGCACCCGACCCCGCTCCAGTCCGGCCAGCCCTT
CAAGTTCTCGATCTTGGAGATCTGCGACCGCATCAAAGAAGAATTCCAGTTTCTTCAGGCTCAATACCACAGCCT
CAAGCTAGAATGTGAGAAGCTGGCCAGCGAGAAGACGAAATGCAGCGACATTATGTCATGTATTATGAGATGTC
GTACGGGCTCAACATTGAAATGCATAAGCAGGCGGAGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTAT
CCCCCTCTGACCCAGGAGCATCAGCAGCAGGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTACCGTGGGGGA
GCTGAACAGCCTCATCGGGCAGCAGCTCCAGCCGCTGTCCCACCACGCACCCCTGTGCCCTCACCCCCGCCC
AGCCGGGCTGGTGGGCGGCAGTGCTACGGGGCTGCTTGTCTGTCTGGAGCCCTGGCTGCCCAGGCTCAGCTGGC
GGCGGCTGTCAAGGAGGACCGTGCGGGCGTGGAGGCCGAGGGGTCCAGAGTGGAGAGAGCCCCGAGCAGGAGTGC
ATCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCGAGTGGCCCTGGTGGTGGCGGGAAGCAGAGAGC
AGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGTGGACGAGGA
CCAACCCTCAGAGCCCCCAGCCCGGCTACCACCCCTGCGGAAAGGTACCCATCTGCATTCTGCCGTGCGGA
CCTGGTGGACAGTCCAGCCTCCTTGGCTCTAGCCTTGGCTCACCGCTGCCTAGAGCCAAGGAGCTCATCTGAA
TGACCTTCCCGCCAGCACTCCTGCCTCCAAATCCTGTGACTCCTCCCCGCCCCAGGACGCTTCCACCCCCGGGCC
CAGCTCGGCCAGTCACTCTGCCAGCTTGTGCCAAGCCAGCACCTTCCACGGACAGCGTCGCCCTGAGGAGCCC
CCTGACTCTGTCCAGTCCCTTACCACGTCTTTCAGCCTGGGCTCCCACAGCACTCTCAACGGAGACCTCTCCGT
GCCAGCTCCTACGTAGCCTCCACCTGTCCCCCAGGTCAGCAGCTCTGTGGTGTACGGACGCTCCCCCGTGAT
GGCATTGAGTCTCATCCCCATCTCCGAGGGTCTATCCGTCTCTTCTCCCTACCCAGCATCCCTGGGGGAAAGCC
GGCCTACTCTTCCACGTGTCTGCGGACGGGCAGATGCAGCCGGTTCCCTTCCCCTCGGATGCACTGGTAGGCGC
GGGCATCCCGCGGCACGCCCGGCAGCTGCACACGCTGGCCCATGGCGAGGTGGTCTGCGCGGTACCATCAGCGG
CTCCACACAGCATGTGTACAGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGAC
GCCCCGTGGCCAGCTCGACTGCCTGAACCGAGACAACCTACATTCTGTTCTGCAAGTTGCTGCCGATGGCCGGAG
TCTGATCGTGGGCGGTGAGGCCAGCACCTTGTCCATTTGGGACCTGGCGGCGCCACCCCCGTATCAAGGCCGA
GCTGACTTCTCAGCCCCAGCCTGCTACGCCCTGGCCGTAGCCCCGACGCCAAGGTTTGCTTCTCTGCTGCAG
CGATGGCAACATTGTGGTCTGGGACCTGCAGAATCAGACTATGGTCAGGCAGTTCAGGGCCACACGGACGGCGC
CAGCTGCATTGATATTTCCGATTACGGCACTCGGCTCTGGACAGGGGGCCTGGACAACACGGTGCCTGCTGGGA
CCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCAGATTTTCTCCCTGGGCCACTGCCCTAACCA
GGACTGGCTGGCGGTTCGAATGGAGAGTAGCAACGTGGAGATCCTGCACGTCCGCAAGCCGGAGAAATACCAGCT
GCACCTCCACGAGAGCTGCGTGTCTCCCTGAAGTTTGCTCCTGCGGACGTTGGTTTGTGAGCACCGGGAAGGA
CAACCTGCTCAACGCCTGGAGGACGCCGTACGGGGCCAGCATTTTCCAGTCCAAGGAGTCGTCTCAGTCTGAG
TTGTGACATCTCCAGAAATAACAAATACATCGTGACAGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGT
CTACTGAGACATGACCCCC

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FIGURE 5166

GCCGCACTGAGCCACAGCCCCGGGGGCCGCTCCCGGGGCCCTTGAGGCACTGAGGCACCGAGACTGGTTCTCC
CCGAGAGACTCGGAAGGTGGGGAACGAGGGGACTGTGTTGGGGAGGTGGCTTTTTTCGTCTGCTGTTGACTGAAC
ACTACAGCGCCCTGTGGTTCCGGGCTTCGCACAGCTGTCCAGGGATGATCGCCTGTGCTGCCTTCGCCCCCGG
CCACACCGGGACCCTGCACGGCTGCTTCTGGCCTCGACAGATGACAAAAGAAACAGCCCCAAAATACGACCACTC
CAACCAGCAGTTCCTCGCTGCTTCCCGCCACTGTCAGGCCTGCCCTGGCCTCCTCGTCCGCAGGGCTGTCTGCT
GGCTTCTGGGGGCAGAAGAGCGGGGAGCCCCGTGGAAGGGTCAGGGGAGACCAGGTGAGGGCAGCTACATTTCTG
GTGATCAGCCCCATGGGGAGACGGGGCTGGCGGGATACCCCCCCCCGGCTTCCCCACACCACTTCTGTCTCACC
CGGAAGCGTCCTTTTTTTGTGCCAGGTGTCTACCTAAGAGGGTTGGTGCCAGAAGCCCCCATGGCGAGTGCTGG
GGCCCGGCGGTGCCCTGGGGGAGCAGATGGGGCCACCCCTGGCAGGGCCGCTACAACCTTTTCCAGCAGCGGAGC
CCTCTGGGGGGCCTGTGCTTGTGGCATCTCTGAGGGCCTAGATTGCACAAGGTGACCTGGCCGTGGCCTGAGGGT
GGAGTCGCCCCAGCACGCAGGCCGGGGCGCTGCGGGGCTAAGTATTAGGCCCTTCCAGGGAGGGGGCGTGCCAAGC
ATCCCAGAGCCGGGCTGGGACCGCCAAAACGTCGTGGCCTGGATCCTCTGGGTCTGAGTGCCCTGATCCCCTGCCC
CCCCAAAAGCAGAGGTAGGTGTTGCAGGCCAGGGCAGGGGTGCCTGCCCCAGGAGAGTCCCAGGCAGTGGTTC
TCGTGCCAGTGGCACCCAGGGGCAAGGACAGCCAACCCCCACCCTTGCCACGTGTGGGGCCACGTGGGCATGTGG
GGTGTGTGTTTTTACCTTGGTGAATCTCACCTGCCAACGATTTCTCGTGAGTGCCAATGTCCCCAGTGGTGGCA
GCAGATCCTGTGGCCGCTGGCGGACGGGACCCAGTGATACTTGTATATTACACAGTCCTGATTTTCAGACAATT
TCAACCTTAATCTATTTAAAAAAGAATATTCTATACAAGCTGTTTTTAAGCCTTTTACCATTTGAAATGCATGTG
TTGTGCGCGTTGGGGATGGGAGGAGGGGCTGAGGAGCGGCTCAGTGTACCTCCACAGCCACCGGCCCTGACCC
TTAATCCAGACACCGATGGAAGTCGACTTTTCATATCTTCTCCTGAAATGAACTCTGTTTTAAATTGGAATAAA
TTTTGTTCCT

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FIGURE 5167

MDRLCCLRPPPHRDPARLLLASTDDKRNSPKIRPLQPAVPACLPATVRPALASSSAGLSAGFWGQKSGEPRGRVR
GDQVRAATFLVISPMGRRGWRDTPPPASPHHFCLTRKRPFVPGVYLRLVPEAPHGECWGPVPWGSRWGHPWQ
GRYNLFQQRSP LGGLCLWHL

5607/6881
FIGURE 5168

GGCCGCCCGGCGCCCCAGCAGCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCGCGCCCCCGCCGCGATTGA
CATGATGTTTCCACAAAGCAGGCATTTCGGGCTCCTCGCACCTACCCAGCAACTCAAATTCACCACCTCGGACTC
CTGCGACCGCATCAAAGACGAATTTAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT
GGCCAGTGAGAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCTACGGCTTGAACATCGAGAT
GCACAAACAGGCTGAGATCGTCAAAGGCTGAACGGGATTTGTGCCAGGTCCTGCCCTACCTCTCCCAAGAGCA
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTCACCGCTCCCGAGCTGAACTCTATCATCCGACA
GCAGCTCCAAGCCCACCAGCTGTCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA
GCCGCTTCGCTGCCGCGGTCAGCGCAGGCACCGGCTCCTCTCGCTGTCCGCGCTGGGTTCACAGGCCACCT
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATTAGCAGGG
GGCCGGGACAGGGAGGTTGGGAGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCAGCTT
GCAGGCCACCTCTAGCTTTCTTCTACCCCATTCGGGCTTCCCTCCTCCTCCCTGCAGCCTGGTTAGGTGGAT
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCGTTTTGAACATGTGTAACCGACAGTCTGCCTGGGCCACAGCCCT
CTCACCTGGTACTGCATGCACGCAATGCTAGCTGCCCCCTTCCCGTCTGGGCACCCGAGTCTCCCCGACCC
CGGGTCCCAGGTATGCTCCACCTCCACCTGCCCCACTCACCACCTCTGCTAGTTCCAGACACCTCCACGCCAC
CTGGTCTCTCCCATCGCCCAAAAAGGGGGGCACAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG
GGTGGGCGACCCAGGATTCCCCCTCCCCTTCCCAAATAAGATGAGGGTACT

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FIGURE 5169

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA
GAGATGCGGCGGACCCTGACGCCTGCCAGCTCCCCAGTGTCTCGCCCAGCAAGCACGGAGACCGCTTCATCCCC
TCCAGAGCCGGAGCCAACCTGGAGCGTGAACCTCCACAGGATTAACGAGAATGAGAAGTCTCCAGTCAGAACCGG
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG
GGTGCCGGCATCGAGAAGGTGCAGGACCCGCAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG
GGTCTGTTTCACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC
TTCAAGGTGCTGGACGCGCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG
GGCTTCGTGCAGATCTGGGACGCAGCCGCAGGGAAGAAGCTGTCCATGTTGGAGGGCCACACGGCACGCGTCGGG
GCGCTGGCCTGGAATGCTGAGCAGCTGTCGTCCGGGAGCCGCGACCGCATGATCCTGCAGAGGGACATCCGCACC
CCGCCACTGCAGTCGGAGCGGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC
CATCTCCTCGCCTCGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG
TACACGGAGCACCTGGCGGCCGTGAAGGCAATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC
GGCACAGCTGACCGCTGTATCCGCTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGTTACTCACAGAACCAGATC
CTTGCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGTGTACCTGGCA
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGTGGAGACGAGACCCTGAGGTTCTGGAACGTCTTTAGCAAA
ACCCGTTGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTACCAGGATCCGGTAA

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FIGURE 5170

MDQDYERRLLRQIVIQNENTMPRVTEMRRILTPASSPVSSPSKHGDRFIPSRAGANWSVNFHRINENEKSPSQNR
KAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQTEDRRLQPSTPEKKGLFTYSLSTKRSSPDDGNDVSPYSL
SPVSNKSQKLLRSPRKPTRKISKIPFKVLDAPELQDDFYLNLDWSSLNVLVGLGTCVYLWSACTSQVTRLCDL
SVEGDSVTSVGWSEGRNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARVGALAWNAEQLSSGSRDRMILQRDIRT
PPLQSEERRLQGHRQEVCGWKWSTDHLLASGGNDNKLLVWNHSSLSPVQQYTEHLAAVKAIAWSPHQHGLLASGG
GTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGYSQNQILVWKYPSLTQVAKLTGHSYRVLYLA
MSPDGEAIVTGAGDETLRFWNVFSKTRSTKVKWESVSVLNLFTIR

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FIGURE 5171

TTTCCCGAGATCACCAAGATGCTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGGACAAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTCGCGAAGATGAATGTGGCCTTCGAGGAGCAGAACCGGTAAGTGCAG
AGGCAAAACGCAGAGCATGAGCAGCGCGCGAGCGTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCT
GGCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGTGCCGGGCAC
GGGCGAAACGCCCACGCTGGGCACTCTGGACTTCTACATGGCCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGC
CCAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCAGGTGCGCCAGCGAGCACCTGTGAGGAGTGGG
CGGGCCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCACCCCGTGGACGAGAGGCTGGGGGT
CCACCCTTTGGGGCCTGGTCCCATCCTGCACCTTTGGGGGCTCCAGCCCCCTAAAATTAAATTTCTGCAGCATC
CCTTTAGCTTTCAATCTCCCCAGCCCCCTGAACCCGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTC
ACAGCCGAGGGTGCCCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGCCACCCCAAGACACAGGG
CAGACGAAACCCACCCCAAGCACACGGCAGGACCCCAAAATTACTACTACGGGGGGCTGTGCCATAGGCCACA
CAGGAAGCTGCCTTGTGGGGACTTACCTGGGGTGTCCCCCGCATGCCTGTACCCCAAGTGGGTGGGGGCCGGCTT
TGCCCATCCTGCTCTCCTCCAGCCGAGGGACCCCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTT
AAATAAAAACAAGTAAATTTGTGTTTTAAAA

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FIGURE 5172

MLGAEWSKLQPTKQRYLDEAEREKQQYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGGDC
DGFSTFDVPIFTEEFLDQNKAREAE LRRLRKMNVA FEEQNAVLQRQNAEHEQRARASGAGAGAGGAEDAGAAAAA
PGRAPGAHRQLRLTAGAGHGRNAHAGHSGL LHGPASRSHRARPRPAREAHRPHQGNPGPGRQRAPVRS GRAHDAE
EKLWARPCHTPPRGREAGGPPFGAWSH PAPLGAPAPLKLNFCSIPLAFNLP SPLNPEKALAARYTQKNLTAEGAP
PRRTATRYTGSPGHPQDTGQTKPTPSTRQDPPNYS LRGA VP

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FIGURE 5173

GCGCCAGGCCCGCTGGGGCAGGTGTCCCGTGGAAATCGACGGAGGGGCTGCCGTGGGCGGCCGTGACAGTCACAG
AGAGGGGAAGAGAAAACAGGGACGGTGACACACACAGAGAGAAGGAAGAGCAGACAGAGGCACAGCAGGAGACCC
CCCCAAGCCCCGAGGAGGACAGCCTGGGGATGCAGAGCACATGCCGGCCCCAGTGAGGGGAACCGATTTCGCCGGA
GCCGGGAGGCAAGCCTGGGGCTCCCTGCCCTGTCCCTGCCCGTAGCCCCCAGCCGTCTCCCCACCATCTGTC
CCGTGCCGTCCCAACAGGTGGGAGCCATGTTCCCTGAGCCCCGGGCGAGGGGCCGCAACCGAGGGTGGGGGTCTG
GGGCCGGGCGAGGAGGCCCAAGAAGAAGCACCGGAGGAACCGCACCACTTCACCACCTACCAGCTGCACCAG
CTGGAGCGGGCGTTTCGAGGCCTCTCACTACCCGGATGTGTACAGCCGTGAGGAGCTGGCAGCCAAGGTGCACCTA
CTGAGGTGCGCGTGCAGGTGTGGTTCAGAACCGCCGGGCCAAGTGGCGCCGCCAGGAGCGGCTGGAGTCAGGC
TCGGGTGCCGTGGCAGCTCCGAGACTCCCCGAGGCCCGACGCGTTCGCCCTTCGCCCCCCCCCGGCCATGTCGCTG
CCCCTGAGCCCTGGTTGGGCCCCGACCGCCGGCCGTGCCAGGCCTCCCCCGCCTCCTGGGCCCCGGGCCCCGGG
CTGCAAGCGTCTTCGGGCCTCATGCCCTTGCTCCCACCTTCGCAGATGGCTTCGCCCTGGAGGAGCGTCCCTG
CGGTGCTGGCCAAGGAACATGCACAGGCTCTGGACAGGCGCTGGCCGCCAGCCTGAGCCTGCCGCCCTCCCCGG
CCCCCTCCTCGGCCAACCCGAGAACCAGGGGACGTGCCCTGGTGACAGCCACCACGCTTGGCCTAGGCCGAGGT
CATGGAGCAACCGTGGTCAGGCCAGGCCACCACCACTGGGAGCGGGACCAGAGAGACAGGCTGCTGGGTTCCCT
GCCCCATCCCGTCTCCACCCCATGCCACCCGTCCTGCTGGCAGCGGACTGGCCCCAGTGTGAGGCAGGAGG
TGACCAAGTATTCTCAGGCCAGGTGCGGGGACCTCCTCCCTCCTGGGGCTCAGTCTCCTGCTGTAAATTGG
GCGTGGGGGCTCCGAGGTTCGAGGGCTGCGAGGCTGTGGGTGGCGGGACCGCTGACTCTGTAAGATGAGTGTA
ATCTCTCTGCTTCTCCTAATCCCCATCAGCAGAGCTGCCCACTCTCCAGGCTCCAGTCCCCCTGGAAATAACAAA
TAGCAGCAGCTCCCGCAGCCTGGTCTCCTCTCACCCTGTGCTCGCCATGTGAGCACTCCCCCTCTCCGTGTGCC
CTGGACCTCGGGCACAGCTGTGAGCCATTCTATAGAGAGGGAAACCGGGGCTTAGGCAGGAAGCCAGGTCCCCA
AAGTCGCACGGCCAGGAGTGGATGGAGCTGCCTTTCAGACCCATCACCAGTCTTACCGTCCGGGGCACAGCGACA
GGTTCTGGAGAGAGGGTGGGTCCCGGGCCAGGTGCTGGTGGGCTCCAGGTGGAGGCGGGCTGATGCTGGGTGTG
TCGTATCGTCAGACCGTTCCTCACGTCCCCACAGACCCAGGCCCTGTGTCATGTCCCAGTGGAGGCATGGCCA
GCATCTGCTCTGTCCAACCCAGTCGCATCGCCAAGAGCTCTGAGCAAGGAGGCTGTGCGGGGGCCGAGAACCCG
CTGGGACTGGCAAGCACGCTGGCCAGTGCAGCAGGAGGGGGCCCTGAGGCATGGGATGGGACAGTCTGGGCA
GCGCCACCTCCCGGGACAGAAGTGGGCACCAGGGCAGGAGCTGCAGTAGCTACCCCTCCCGTCTCCAGCCTGGG
CTCCCCAGATCACTCCAGATCACCAGGTACCCCATCTCTAGGCGGCACCTCACACACCAGTCTGTGGTCCAA
CGCCCCGCCATACCCAAATGTACCGCACACCAGGCAGTGGGGACACGGCAGTAAGCACAAGAAAGATTTTTTTT
TTTTTAAAGCTAAACCAGGCCAGGTGCGGTGGCTCATGCCCTGTAATCCAGTGCTTTGGGAGGCTGAGGTGGGAG
GATTGCTTGAGACCAGCCTGGGTGACACAGCAAGACCCATCTCCACAAACGTTTTTAAATGTGCCGGGTGTAC
TGGTGACACCTGTATCCAGCTACCCAAGAAGCTGAGGCAAGAGGATCACTTGAGCCCAGAAGGTGAGGCTG
CAGGGAGCTGTGATCACTGCTGCACTCCAGCCTGTGCAACAGAGCCAGACCCCTGACTCAATACAAATAAAAA
CAAATCTAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5174

MFLSPGEGPATEGGGLGPGGEEAPKKKHRRNRRTFTTYQLHQLERAFAESHYPDVYSREELAAKVHLPEVRVQVWF
QNRRAKWRRQERLESGSGAVAAPRLPEAPALPFARPPAMSLPLEPWLGPGPFAVFGLPRLLGPGPGLQASFGPHA
FAPTFADGFALEEASLRLLAKEHAQALDRAWPPA

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FIGURE 5175

GGCCGGCGGGCGGGCGGGCGGGCGGGAGGAGACCGCAGTGCGGCCGGCGCTAGGACCCGCGGGGGCCTCCCAGGCC
GCGGCGCCTCCCGCTTTCCCCACTCCCCGACCCTTCTTCGCCCCCAAATGAGGAAACGGAGCAACTCGTCCA
AGTTGTGCAGCCGGGACCGCCTCGGGGTGTGCAGCCGGCTCGCGGAGGCCCTCCTGGGGGCGGGGCGGGGCGCG
GCTCGGGGGCGCCCCCTGAGCAGAAAACAGGAAGAACCAGGCTCGGTCCAGTGGCACCCAGCTCCCTACCTCCTG
TGCCAGCCGACTGGCCTGTGGCAGGCCATTCCCAGCGTCCCCGACTGTGACCACTTGCTCAGTGTGCCTCTCACC
TGCCCTCAGTTTCCCTCTGGGGGCGATGGCGGGGCGAGGCTCTCTGGTTTCTGGCGGGCATTTCACGGCTGTGAT
TCTGTGAGGAACTTCCCCGGGTGAGCCCCCGCTTCTCCGAGCCTGGCACCCCCCTCCCGTCTCAGCCAGGATG
CCAACGAGGCGCTGGCCCCCGGGCACCCAGTGTATACCAAATGCGAGCACACCCGCCCCAAGCCAGGGGAGCTG
GCCTTCCGCAAGGGCGACGTGGTCACCATCCTGGAGGCTGCGAGAACAAGAGCTGGTACCGCGTCAAGCACCAC
ACCAGTGGACAGGAGGGGCTGCTGGCAGCTGGGGCGCTGCGGGAGCGGGAGGCCCTCTCCGAGACCCCCAAGCTC
AGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGCAGCCTCCCGAGGATGGG
CTGTTCTGTGTCGGGAGTCCGCGCGCCACCCGCGGACTACGTCTGTGCGTGAGCTTTGGCCGCGACGTCATC
CACTACCGCGTGTGTCACCGCGACGGCCACCTCACAATCGATGAGGCCGTGTTCTTCTGCAACCTCATGGACATG
GTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTGGTGAGACCAAAGCGGAAACACGGGACCAAG
TCGGCCGAGGAGGAGCTGGCCAGGGCGGGCTGGTTACTGAACCTGCAGCATTGACATTGGGAGCACAGATCGGA
GAGGGAGAGTTTGGAGCTGTCTGCAGGGTGAGTACCTGGGGCAAAGGTGGCCGTGAAGAATATCAAGTGTGAT
GTGACAGCCCAGGCCTTCTGGACGAGACGGCCGTATGACGAAGATGCAACACGAGAACCCTGGTGCCTCTCCTG
GGCGTGATCCTGCACCAGGGGCTGTACATTGTGTCATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTTCTGCGG
ACCCGGGGTTCGAGCCCTCGTGAACACCGCTCAGCTCCTGCAGTTTTCTCTGCACGTGGCCGAGGGCATGGAGTAC
CTGGAGAGCAAGAAGCTTGTGCACCGCGACCTGGCCGCCCGCAACATCCTGGTCTCAGAGGACCTGGTGGCCAAG
GTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGCCCGTCAAGTGGACGGCG
CCCGAGGCTCTCAAACACGGGAAGTTACCCAGCAAGTCGGATGTCTGGAGTTTGGGGTGCTGCTCTGGGAGGTC
TTCTCATATGGACGGGCTCCGTACCCTAAATGTCACTGAAAGAGGTGTCGGAGGCCGTGGAGAAGGGGTACCGC
ATGGAACCCCCGAGGGCTGTCCAGGCCCCGTGCACGTCTCATGAGCAGCTGCTGGGAGGCAGAGCCCGCCCGC
CGGCCACCCTTCCGCAACTGGCCGAGAAGCTGGCCCGGGAGCTACGCAGTGCAGGTGCCCCAGCCTCCGTCTCA
GGGCAGGACGCCGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCCTGACCCACCCGGTGGGGCCCTTGGCCCCA
GAGGACCGAGAGAGTGGAGAGTGGGGCGTGGGGGCACTGACCAGGCCCAAGGAGGTCCAGGCGGGCAAGTCATC
CTCCTGGTGGCCACAGCAGGGGCTGGCCACGTAGGGGGCTCTGGGCGGCCCGTGGACACCCAGACCTGCGAAG
GATGATCGCCCGATAAAGACGGATTCTAAGG

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FIGURE 5176A

GGAAAGCCGAGCCTCTGCCAGCCCTGAGCTGGGAAGAAGCAGCTACCTCGGAGGCAGGGCGCGCAGGCGGGCGGCG
ATGAGAGGGGGCGCAGCCGCGAGCCCCGCGCTGGGGAGCCCACCGCTAACCTGCACCCACCCACCCCTGCACAA
AAGAGCTGGCGGGCGCTGGCCACGTCGCCCTGGGTGACCTTCCTCGGATGCAGAATCCGCCCTGCGAGCATCCT
CTTCCTCTAGGCTCTGAAGGCCCCGGGAGCGTGAGCGATGCCAGCTGCACCCGGGAGGGCTCGCCTTTGTTT
GCCAGTAAGGAGGAGAGGCTGTCTCAGCTGCAGAGGGGTATCCCTGCTTCAAGCCAGTGCCTCTTCCAGCTCC
CATGGGGACCACCGAAGCCACGCTCCGGATGGAACAGTGGACGTGAAGGAGGAATGGCAGGACGAAGATCTTCC
CAGGCCACTCCAGAAGAGACGGGGGTGGAAGTGTGGCAGCCCGGTGGAGACACATCCTCTCTCCCAACAC
GCTAAATTTCAACGGAGCGCATCGTAAGAGGAAGACGCTGGTGGCCCCAGAGATCAACATTTCTTGATCAGAG
TGAGGGGTCCCTGCTGTCCGATGACTTCTTGATACCCCTGATGACCTGGATATTAACGTGGATGACATCGAGAC
CCCCGATGAGACCGACTCGCTGGAGTTCTTGGGGAATGGCAACGAAGTGGAGTGGGAAGACGACACCCCGTGGC
CACCGCCAAGAATGCCCCGGGACAGCGCGGATCTATTGGGGACGGCAGCAGCGGAGGACGGCAGCGCCGCCAA
CGGGCGCTGTGGCGGACAGTGATCATCGGGGAGCAAGACACCGTATAGACCTGCACATGATCCGGCCTTACAT
GAAAGTGGTCACCCACGGAGGGTACTACGGCGAAGGCTCAACGCCATCATCGTCTTCGACGCTGCTTCTTCC
AGACAGCAGCCTCCCGACTACCCTACATCATGAGAACCTCTTCTGTACGTATCAGCAGCTTAGAGCTCCT
GGTGGCTGAGGACTACATGATCGTGTACCTGAACGGTGGCAGCCCCGGCGGAGGATGCCTGGAATCGGCTGGCT
GAAGAAGTGTACCATGATCGACCGAGGTTGCGGAAAAACCTGAAGTCTTGATCATCGTCCACCCCTCGTG
GTTTATTTCGGACTGTGCTGGCCATCTCTCGCCCTTTTCATCAGCGTCAAGTTTCATCAACAAGATCCAGTACGTGCA
CAGCTTGGAAGACCTGGAGCAACTCATCCCTATGGAACACGTCCAGATCCCAGACTGCGTCTGCAATACGAAGA
GGAAAGACTGAAGGCGAGGGGAGAGCGGAGGCCCGCCAGCCGGAGTTTGTGCTGCCAGGTCTGAAGAGAAGCC
AGAGGTGGCACCAGTGGAAAAAGGCTGTCTGCTGTCTGAGTATCAGGAAAAAGCATGTCTTGAGGCGACGT
GAGCATAACAAAGGACATGGAAGAAGATTCCAGATGCCAGAAAACTCTGTACAGACGCCACTGGCCCCAGATCT
CATCTGCCTCATCCTGAGTCCCAATCTTCCAAGGGTGGCAGCCCCCTCCGTTTCATCTCTGAAACCCAGCATCCTT
TTCAGCTGCTTGAAAAATTTGATTTTTTTTTTTTTTAAACGATGCAGTATTTGTGCGTTCCAGAAAAAGGGCCAGCT
CTGAGCCCCCTCACCTTCCACACTACGAACTCTCAGCCGAGGAAGGCAAGAAGCGCAGGGGGTGGCCCGCTGG
CGTCGGTGGCCTCCGCTCCTGCTCGCAGCCTCTGTGGTCTAGAGCTGGATACAAGATTCAAGACCCCTTCTCTGCT
TGTCACCCGCTCCAGGTTGGAGCCACAGACACCCACCGCCACCCCGGCTGGGTCTGCGTCTTTCTGTGCTTTT
CCCTCCAGAATGCGGCTCAGACCTAGAAGCTCAACCCCTATGAGGGCCACGTCCTGGGGTAGCTCCTGACCT
CCGACCTTATGTCCAAATTTACACCCATGGTTTTTCAATTTGACCCGCCCCCTTCTCGCTCATAATGACACCCAG
CTCCTTTGAGAGGATCAGAGCCCATTCACACAAGAAGAGCGCTGCCAACCATCCTTGCTCTCCGATTGCAAAATG
ACACCCAGTAATCTAGAACATTCTCAAGCCCTTTAACTCAGATGTCAAGCCACCGGGCAACCCCGTCAATAC
CTCCACCAAGGAATGAGATATGTGGACCTCACTGCTCCCCAACCCAGCGTCAGGCTGGGACACGCCAACGCTG
TTCCGGGTGGAACAGCAGAGGCTCAGAACTGGCTCTGAAATAGGCAGACCTAGCAAGAGGAAGATACAGGGTA
TCGGGCGTTTGAGTGTTCAGAAGTCATTGCGGAAGATAAATCCAGTGCCTGGCCGAGCCACCTGCATTCAA
GCTTGAGACCAGCGGTTCTTGTTCGGGAGGCAAAATTCCTAGGAAAAAGAAGACAGACTTTTCTAATGTGGTCC
AAATGCGGATCACTGGTCAGATGGACTCTAGAAGCACTGAGCTCCTGTCTCTGGAAGTATTTAAGAAAAGGCTG
GGCCAGGCACGATGGCTCACGCTGTAAATCCAGACTTTGGGAGGCCGAGGCAGGCGGATCACCTGAGGTGAGGA
GTTTGAGAACAGCCTGGCCAAATGGTGAACCTCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGC
AGGTGCTGTAAATCCAGCTACTTGGGAGGCTGAGGCATGAGAATCACTTAAACCTGAGAGGCAGAGGTTACAGT
GAGCCAAGATCGTGCCACTGCATTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAATAAAAAATAAT
CAGGGCACAGTGGCTCATGCTGTAAATCCAGCACTCTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGAGGAG
TTCAAGACCAGCCTGGTGAACATGGCGAAACCCGCTCTCTAATAAAAAATACAAAAATTAGCCGGGCATGGTGGT
CATGCTGTAAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAACCCAGGAGGCAGAGGTTGCAGTG
ATCCAAGATCATGCCACTGCACTCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAATAAAAAGAAAAGAAA
AGAATGGACAGTGTGTCAGAGAGTTGCTCACGAGTTTCCCTCTAATCTAATGTCTTCATGTCTATCAGTCTG
AGCAGACGGTGAGTAGGGCGGGCACATTCTCCAGGCCCTTCTCTAGCTCTGTGGTTGACCTCTCAGCAAGTGC
TATCCAGGCTGGGCCAACAGACCCACAATTAAGTGGCTCAGTGAAGCGTCCAGTGCATCTTGACCTGAGAC
AGCAAGGAATTGCATTGTTGGGTTATTCCAACGATGATGGCAGGGAAGTGGTGGTATTAGTGCTGAGGGGCAGTG
ATACAGAAAGATTGCCCCTGTGGGACAGGGTCTGCGCGAGTCCCATCCCCAAAGCCAGCAGCTCCTGCCATGA

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FIGURE 5176B

GGAAGACGGGGTTTCTGAGCAGGCTTATGCCTGCAGGTTCTGTGGAGCCACCGGCTGTGACGGGACACCTCTGG
GTCTCAGCATTGCCCTGGGGAGGCTGGGACATTTAGGGACATGGTAGGGTTTTAACATTGTTTCCCAAATGTCA
AATCCCGGGCACAGGGGCAAGACCCTGTCCCGAATTCCCACCCAGTGAATGGTGTGCTGCGTGCCAAAGCCAACACA
AGATGACAAAAGTGGCTGGGTACGGTGGCTCACGCCATAATCCCAGCACTTTGGGAGACCGAGACAGGTGGATC
ACCTGAGGTGAGGAGTTCGAGACCAGGCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAG
CTGGGTGTGGTGGCGCGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGTAGAAGAATAGCTGGAACCCAGGAG
GCAGAGATTGCAGTCAGCCGAGATTGCACCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTGACTCAAAAGAA
AAAAAATGACAGAAGCCTGATTATCAGACTGCCCGGAGGAGACAGGCTCCAGCAGATAGATGCCAGCCAGGCCCCA
GCTGCCACGATTTGTCCCAGGTGACCAAAGGCACGCAGCTCCAGCATGAATCGTTCTAACCCAACAGTGACAAGA
ACTGCTGGGCCTTAACCGTTCATGGAAGACTGGGGCCGCTTCCAAGTCACAGACAGGAGACGGGGACAGGAAAGAA
CTCATTCCACCCAATCGGACACCTAATAATTGAGTGTCTACAGCAGCAATCAAGTGACAAGTGAGGCCCTACCTG
ACCCAGAAGGTGCCTGCCGGCTAAACATTCTGCCCCCACCAGAACTCCAGGGGGTCCGCCCCGTTATGCCGTGGC
CCACCCACGCCCCCTTTGGATCACCAGCAGTCACAGACAACAGGCAGGCGAAACTGAAGACCCCAACTCAGCCCCA
GCGGACCCTCCAGAGCAAAAGAGGCCCCCGGCGAGGCCACCTGTGCGCAGGCATGCCGAGGTCAAACAGCCGGGG
CCACCGTTCCCAGCTGGGCCACGACCTGCACCGTCCACAGATGGGCTTTGAGATGGATTGTATCAGGGTGGGGG
GTGTGGTTTGGCCAAAATGCAATGGACCCCGACCCCTCCTCGTAAAAGGATGTTGGGTTTCCCTCTGGTGACACA
TGGGATGCGTCATAAACCTCCCCCAAAGTCTGTGTCAGCAGCCCATCCTTCCAACGATGAGTTTTGCGGTTTTT
CAGAACAGAAATGATCACTACGATTGACGACGGTCGTGATGTTAAGACGTCGTCTCCATGAGCTTTGGGGGGACT
TTTATGTGAATAAAGAACTATCACTG

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FIGURE 5177

MGITTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPPNTLNFNGAHRKRKTLVAPEINISLDQS
EGSLLSDDFLDTPDDLDINVDDIETPDETDSEFLGNGNELEWEDDTPVATAKNMPGDSADLFGDGTEDGSAAN
GRLWRTVIIGE QEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMENLFLYVISSLELL
VAEDYMIVYLN GATPRRRMPGIGWLKKCYQMIDRRLRKNLKSIIIVHPSWFIRTVLAI SRPFISVKFINKIQYVH
SLEDLEQLIPMEHVQIPDCVLQYEEERL KARRESARPQPEFVLP RSEEKPEVAPVENRSALVSEDQETSMS

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FIGURE 5178

ATGGTTAATTTTACGGTGGATCAGATCCGCGCCATCATGGACAAGAAGGCCAACATCCGCAACATGTCTGTCATC
GCCACGTGGACCATGGCAAGTCCACGCTGACAGACTCCCTGGTGTGCAAGGCGGGCATCATCGCCTCGGCCCGG
GCCGGGGAGACACGCTTCACTGATACCCGGAAGGACGAGCAGGAGCGTTGCATCACCATCAAGTCAACTGCCATC
TCCCTCTTCTACGAGCTCTCGGAGAAAGACTTGAACCTTCATCAAGCAGAGCAAGGACGGTGCCGGCTTCTCATC
AACCTCATTGACTCCCCCGGGCATGTGACTTCTCCTCGGAGGTGACTGCTGCCCTCCGAGTCACCGATGGCGCA
TTGGTGGTGGTGGACTGCGTGTGAGGCGTGTGCGTGCAGACGGAGACAGTGTGCGGCAGGCCATTGCCGAGCGC
ATCAAGCCTGTGCTGATGATGAACAAGATGGACCGCGCCCTGCTGGAGCTGCAGCTGGAGCCCCGAGGAGCTCTAC
CAGACTTTCAGCGCATCGTGGAGAACGTGAACGTCACTCATCTCCACCTACGGCGAGGGCGAGAGCGGCCCATG
GGCAACATCATGATCGATCCTGTCTCGGTACCGTGGGCTTTGGGTCTGGCCTCCACGGGTGGGCCTTCACCCTG
AAGCAGTTTGCCGAGATGTATGTGGCCAAGTTCGCCGCCAAGGGGGAGGGCCAGTTGGGGCCTGCCGAGCGGGCC
AAGAAAGTAGAGGACATGATGAAGAAGCTGTGGGGTGACAGGTACTTTGACCCAGCCAACGGCAAGTTTCAGCAAG
TCAGCCACCAGCCCCGAAGGGAAGAAGCTGCCACGCACCTTCTGCCAGCTGATCCTGGACCCCATCTTCAAGGTG
TTTGATGCGATCATGAATTTCAAGAAAGAGGAGACAGCAAACTGATAGAGAACTGGACATCAAACTGGACAGC
GAGGACAAGGACAAGAAGGCAAAACCCTGCTGAAGGTGTGATGCGCCGCTGGCTGCCCTGCCGGAGACGCTTG
TTGACAGATGATCACCATCCACCTGCCCTCCCTGTGACGGCCCAAGTACCGCTGCGAGCTCCTGTACGAGGGG
CCCCCGGACGACGAGGCTGCCATGGGCATTAAAGCTGTGACCCCAAGGCCCTCTTATGATGTATATTTCCAAA
ATGGTGCCAACCTCCGACAAAGGTGCGTTCTACGCCCTTTGGACGAGTCTTCTCGGGGCTGGTCTCCACTGGCCTG
AAGGTCAGGATCATGGGGCCCAACTATACCCCTGGGAAGAAGGAGGACCTCTACCTGAAGCCAATCCAGAGAACA
ATCTTGATGATGGGCGGCTACGTGGAGCCCATCGAGGATGTGCCTTGTGGGAACATTGTGGGCCTCGTGGGCGTG
GACCAGTTCTGGTGAAGACGGGCACCATCACCACCTTCGAGCAGCGGCACAACATGCGGGTGATGAAGTTCAGC
GTCAGCCCTGTTGTGAGAGTGGCCGTGGAGGCCAAGAACC CGGCTGACCTGCCCAAGCTGGTGGAGGGGTGAAG
CGGCTGGCCAAGTCCGACCCCATGGTGCAGTGCATCATCGAGGAGTGGGAGAGCATATCATCGCGGGCGCCGGC
GAGTGCACCTGGAGATCTGCCTGAAGGACCTGGAGGAGGACACGCCTGCATCCCCATCAAGAAATCTGACCCG
GTCGCTCTGTAACGCGAGACGGTCAGTGAAGAGTCAACGTGCTCTGCCCTCTCCAAGTCCCCCAACAAGCACAAC
CGGCTGTACATGAAGGCGCGGCCCTTCCCCGACGGCTGGCCGAGGACATCGATAAAGGCGAGGTGTCCGCCCGT
CAGGAGCTCAAGCAGCGGGCGGCTACCTGGCCGAGAAGTACGAGTGGGACGTGGCTGAGGCCCGCAAGATCTGG
TGCTTTGGGCCCGACGGCACCGGCCCAACATCCTACCGACATCACCAGGGGTGTGCAGTACCTCAACGAGATC
AAGGACAGTGTGGTGGCGGCTTCCAGTGGGCCACCAAGGAGGGCGCACTGTGTGAGGAGAACATGCGGGGTGTG
CGCTTCGACGTCCACGACGTACCCCTGCACGCCGACGCCATCCACCGCGAGGGGGCCAGATCATCCCCACAGCA
CGGCGCTGCCTCTATGCCAGTGTGCTGACCGCCAGCCACGCCTCATGGAGCCCATCTACCTTGTGGAGATCCAG
TGTCCAGAGCAGGTGGTGGTGGCATCTACGGGGTTTTGAACAGGAAGCGGGGCCACGTGTTCGAGGAGTCCCAG
GTGGCCGGCACCCCATGTTTGTGGTCAAGGCCTATCTGCCCGTCAACGAGTCTTTGGCTTCACCGCTGACCTG
AGGTCCAACACGGGCGGCCAGGCGTTCCCCCAGTGTGTGTTGACCACTGGCAGATCCTGCCCCGAGACCCCTTC
GACAACAGCAGCGCCCCAGCCAGGTGGTGGCGGAGACCCGCAAGCGCAAGGGCCTGAAAGAAGGCATCCCTGCC
CTGGACAACTTCTGGACAAATTGTAGCGGCCCTTCTGCAGCGCTGCCGCCCGGGGACTCGCAGCACCCAC
AGCACCACGTCTCGAATTCTCAGACGACACCTGGAGACTGTCCCGACACAGCGACGCTCCCTGAGAGGTTTCT
GGGGCCCGCTGCGTGCCATCACTCAACCATAACACTTGATGCCGTTTCTTTCAATATTTATTCCAGAGTCCGGA
GGCAGCAGACACGCCCTCTTAGTAGGGACTTAATGGGCCGTGCGGGAGGGGGAGGCGGGATGGGACACCCAACA
CTTTTCCATTTCTTCAGAGGGAACTCAGATGTCCAACTAATTTTAAACAAACGCATTAAGAGGTTTATTGGG
TACATGGCCCGCAGTGGCTTTTGCCCCAGAAAGGGGAAAGGAACACGCGGCTAGATGATTCTAGCAGGCAGGAA
GTCCTGTGCGGTGTACCATGAGCACTCAGCTGTACTAGTGCCATTGGAATAATAAATTTGATAAGGTGTGAAA

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FIGURE 5179

MVNFTVDQIRAIMDKKANIRNMSVIAHVHDHGKSTLTDSLVCAGIIASARAGETRFTDTRKDEQERCITIKSTAI
SLFYELSENDLNFQKQSKDGAGFLINLIDSPGHVDFSEVTAALRVTDGALVVVDCVSGVCVQTETVLRQAIAER
IKPVLMMNKMDRALLELQLEPEELYQTFQRIVENVNVIISTYGEGESGPMGNIMIDPVLGTVFGSGLHGWFTL
KQFAEMYVAKFAAKGEGQLGPAERAKKVEDMMKKLWGDYFDPANGKFSKSATSPEGKKLPRTFCQLILDPIFKV
FDAIMNFKKEETAKLIEKLDIKLDSKDKKEGKPLLKAVMRRWLPAGDALLQMITIHLPSPVTAQKYRCELLYEG
PPDDEAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGLVSTGLKVRIMGPNYTPGKKEDLYLKPIQRT
ILMMGRYVEPIEDVPCGNIVGLVGVDQFLVKTGTITTFEHAHNMRVMKFSVSPVVRVAVEAKNPADLPKLVEGLK
RLAKSDPMVQCIIEESGEHIIAGAGELHLEICLDLEEDHACIPIKSDPVVSYRETVSEESNVLCLSKSPNKH
RLYMKARPPFDGLAEDIDKGEVSARQELKQARARYLAEKYEWDAEARKIWCFGPDGTGPNILTDITKGVQYLNEI
KDSVVAGFQWATKEGALCEENMRGVRFVDVHDVTLHADAIHRGGGQIIPTARRCLYASVLTAQPRLMPIYLV
CPEQVVGGIYGVNLRKRGHVFEESSQVAGTPMFVVKAYLPVNESFGFTADLRSTGGQAFPCQVFDHWQILPGDPF
DNSSRPSQVVAETRKRKGLKEGIPALDNFLDKL

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FIGURE 5180

CCCCCTGCCTCTCGGACTCGGGCTGCGGCGTCAGCCTTCTTCGGGCCTCGGCAGCGGTAGCGGCTCGCTCGCCTCA
GCCCCAGCGCCCCTCGGCTACCTCGGCCCAGGCCCGCAGCGCCGCCCGCCCTCGGCCGCCCGACGCCGGCCTG
GGCCGCGGCGCGCAGCCCCGGGCTCGCGTAGGCGCCGACCCTCCCGGCCCGCCCCCTATGGGCCCCGGCTAGAGG
CGCCGCGCGCGCGGCCCGGAGCCCCGATGCTGGCCCGAGGAAGCCGGTGCTGCCGGCGCTCACCATCAACC
CTACCATCGCCGAGGGCCCATCCCCTACCAGCGAGGGCGCCTCCGAGGCAAACCTGGTGGACCTGCAGAAGAAGC
TGGAGGAGCTGGAACCTTGACGAGCAGCAGAAGAAGCGGCTGGAAGCCTTTCTCACCAGAAAGCCAAGGTCGGCG
AACTCAAAGACGATGACTTCGAAAGGATCTCAGAGCTGGGCGCGGGCAACGGCGGGGTGGTCACCAAAGTCCAGC
ACAGACCCCTCGGGCCTCATCATGGCCAGGAAGCTGATCCACCTTGAGATCAAGCCGGCCATCCGGAACCAGATCA
TCCGCGAGCTGCAGGTCTGCACGAATGCAACTCGCCGTACATCGTGGGCTTCTACGGGGCCTTCTACAGTGACG
GGGAGATCAGCATTTGTCATGGAACACATGGACGGCGGCTCCCTGGACCAGGTGCTGAAAGAGGCCAAGAGGATTC
CCGAGGAGATCCTGGGGAAAGTCAGCATCGCGGTTCTCCGGGGCTTGGCGTACCTCCGAGAGAAGCACCAGATCA
TGCACCGAGATGTGAAGCCCTCCAACATCCTCGTGAACCTTAGAGGGGAGATCAAGCTGTGTGACTTCGGGGTGA
GCGGCCAGCTCATCGACTCCATGGCCAACTCCTTCGTGGGCACGCGCTCCTACATGGCTCCGGAGCGGTTGCAGG
GCACACATTACTCGGTGCAGTCGGACATCTGGAGCATGGGCCTGTCCCTGGTGGAGCTGGCCGTCCGGAAGGTACC
CCATCCCCCGCCCGACGCCAAAGAGCTGGAGGCCATCTTTGGCCGGCCCGTGGTCGACGGGGAAGAAGGAGAGC
CTCACAGCATCTCGCCTCGGCCGAGGCCCGCGGCCCGCTCAGCGGTACGGGATGGATAGCCGGCCTGCCA
TGGCCATCTTTGAACTCCTGGACTATATTGTGAACGAGCCACCTCCTAAGCTGCCCAACGGTGTGTTCACCCCCG
ACTTCCAGGAGTTTGTCAATAAATGCCTCATCAAGAACCCAGCGGAGCGGGCGGACCTGAAGATGCTCACAACC
ACACCTTCATCAAGCGGTCCGAGGTGGAAGAAGTGGATTTTGCCGGCTGGTTGTGTAAAACCTGCGGTGAACCAG
CCCGGCACACCCACGCGCACCGCCGTGTGACAGTGGCCGGGCTCCCTCGGTCCCGCTGGTGACCTGCCCACCGTC
CCTGTCCATGCCCCGCCCTTCCAGCTGAGGACCGTGGCGCCTCCACCCACCCCTCCTGCCTCACCCTGCGGAGAGC
ACCGTGGCGGGGCGACAGCGCATGCAGGAACGGGGTCTCCTCTCCTGCCGTCTGGCCGGGTGCCTCTGGGGA
CGGGCGACGCTGCTGTGTGGTCTCAGAGGCTCTGCTTCCTTAGGTTACAAAACAAAACAGGGAGAGAAAAAGC

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FIGURE 5181

GCTTCCGGCGGAAGCGGCCTCAACAAGGGAACTTTATTGTTCCCGTGGGGCAGTCGAGGATGTCGGTGAATTAC
GCGGCGGGGCTGTGCGCGTACGCGGACAAGGGCAAGTGGCGCCTCCCGGAGATCTTCGACCCCCCGGAGGAGCTG
GAGCGGAAGGTGTGGGAAGTGGCGAGGCTGGTCTGGCAGTCTTCCAGTGTGGTGTTCACACGGGTGCCGGCATC
AGCACTGCCTCTGGCATCCCCGACTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCC
AAGTTCGACACCACCTTTGAGAGCGCGCGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGC
CTCCTCCGCTTCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCTTCCCCAGGGACAAACTGGCA
GAGCTCCACGGGAACATGTTTGTGGAAGAATGTGCCAAGTGTAAGACGCAGTACGTCCGAGACACAGTCGTGGGC
ACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAG
CTGAGGGACACCATCCTAGACTGGGAGGACTCCCTGCCCCGACCGGGACCTGGCACTCGCCGATGAGGCCAGCAGG
AACGCCGACCTGTCCATCAGCTGGGTACATCGCTGCAGATCCGGCCCAGCGGGAACCTGCCGCTGGCTACCAAG
CGCCGGGGAGGCCGCTGGTCATCGTCAACCTGCAGCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCAT
GGCTACGTTGACGAGGTCATGACCCGGCTCATGGAGCACCTGGGGCTGGAGATCCCCGCTGGGACGGCCCCCGT
GTGCTGGAGAGGGCGCTGCCACCCCTGCCCCGCCCCACCCCAAGCTGGAGCCCAAGGAGGAATCTCCACC
CGGATCAACGGCTCTATCCCCGCGGCCCAAGCAGGAGCCCTGCGCCCAGCACAACGGCTCAGAGCCCCGCCAGC
CCCAAACGGGAGCGGCCACCAGCCCTGCCCCCACAGACCCCCAAAAGGGTGAAGGCCAAGGCGGTCCCCAGC
TGACCAGGGTGCTTGGGGAGGGTGGGGCTTTTTGTAGAACTGTGGATTCTTTTTCTCTCGTGGTCTCACTTTGT
TACTTGTCTTCTGTCCCCGGGAGCCTCAGGGCTCTGAGAGCTGTGCTCCAGGCCAGGGGTTACACCTGCCCTCCGT
GGTCCCTCCCTGGGCTCCAGGGGCTCTGGTGCGGTTCGGGAAGAAGCCACACCCAGAGGTGACAGCTGAGCC
CCTGCCACACCCAGCCTCTGACTTGCTGTGTTGTCCAGAGGTGAGGCTGGGCCCTCCCTGGTCTCCAGCTTAAA
CAGGAGTGAACCTCCTCTGTCCCCAGGGCCTCCCTTCTGGGGCCCCCTACAGCCCACCCTACCCCTCCTCCATGGG
CCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACTGCCTTTGGGGCTGGAGGGAGA
CGTGGGTCCACCAGGCTTCTGGAAGTCCCTCAATGCAATAAAAAACAATTTCTTTCTTGCAAA

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FIGURE 5182

MSVNYAAGLSPYADKGKGLPEIFDPPEELERKVVWELARLVWQSSSVVFHTGAGISTASGIPDFRGPHGVWTMEE
RGLAPKFDITTFESARPTQTHMALVQLERVGLLRFLVSONVDGLHVRSGFPRDKLAELHGNMFVEECAKCKTQYVR
DTVVGTMGLKATGRLCTVAKARGLRACRGELRDTILDWEDSLPDRDLALADEASRNADLSITLGTSLQIRPSGNL
PLATKRRGGRLVIVNLQPTKHDRHADLRIHGYVDEVMTLMEHLGLEIPAWDGPRVLERALPELPRPPTPKLEPK
EESPTRINGSIPAGPKQEPCAQHNGSEPASPKRERPTSPAPHRPPKRVKAKAVPS

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FIGURE 5183

TCCATAACCTGCTGTGGCTCCCCATTGCCAGGCAGTGTAGAGTTCCTGAATACCTTGTGCTGGAAGCTGAAGCCCT
TCCTGCCCCAGCCCTGAATCACCTCTCCAACCTCAGCCCCCTCCIGCTCCTGCTGCAGCCCCCAAAACACTTGCAT
TTTCTCCTAAACTCATGGGCTCTTCCCAGCACCCAGGCCTTTGTTTACCCCTTCTGTCTGATCTTCCCTCTCACC
CTTCAAGAACTGCTTAGCCTCCTCCAGGAAGCCCTTCACGTGCCCCAGGGCCCCACCTCCACGGGGCTTCCC
CAGGCCCAGGTACCTCCTCTGATCCAGGCTTGACTCTTGGGGCCAGAGGATCTGTGTCCACCTGTCTCCCCAAG
ATCAAGGGCTTCTGGAGGGCAGGGCTTGGGCCCATGTGAGCATCGTCAGGCTCATTGCAGCAGCAGTGTGGTTG
AATAGAATAAGTCATTTTTGCCTTCGTGTGAATTCATCTCTCTCTCTGCTCTCCCTCTCTCTGTCTCTCTCC
AATTCTGTCTCTGACTTGCTTTGTCTTTAACTCTTTATCTCTCTGTCTGTGTCTTGTCTATCCCCCTCTCCCTG
TTCTTGCAACTCACCTCTATTTCTGTTTCTGATTCCCTCTCTCTGTCTCCCTGTCTCTCTGTCTCCTGATTT
TCTCTCTCTCCAACCTTCTCTCTATACCTCTCTGATTCTCCCTCTGTCTCTTTTTCTGTTCCCCCTCTCCCCGTCC
ATCTCTCCCGCCTGCCACCTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCCAAGT
TCGACACCACCTTTGAGAGCGCGGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGCCTCC
TCCGCTTCCCTGGTCAGCCAGAACGTGGACGGGTCCATGTGCGCTCAGGCCTCCCTTCTGGGCCCCCTACAGCCC
ACCCTACCCCTCCTCCATGGGCCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACT
GCCTTTGGGGCTGGAGGGAGACGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAACAATTTCTT
TCTTGC

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FIGURE 5184

CAAAAGGACAGATGCAGAGGACAGGCGCCAGGCACAGATACCATCTCCCTTCCCCAAGCCAGCTGCCCCCAACCC
TCCCCCTGCCCCGAATTAGTCCTCTGGGGCGGGAGCGGGGCACAGAGCAGAGCCCTCTTGGGGGAGGGGAAGCCC
GATCCGCACCCACCCTTCCCTTGGCCCCCTCTTCCCTCTGCTGTCCAATATCAATTTAGCCAGTGACCTCTCC
ACCAATTTGCACATCCCCACTCTCCCGGTCCGTTTACCGCCAGACATCGGTTCCATTTGACCCCTCACTGGCGG
TCATTCCACCCCCCTCTGCTGGTCAATTTACCCCTTTTGGCGGTCAAGTGAGTCCCCCATTTCCCGGCAATT
TCCCCCTCCCTCCCTTCTCCCTCTCCCTTCCCTTCCCTCAGAGTGTCACTCCCAGCTGCTCCCCACCTCCCGCGC
TCCGCGCTCGCTGCGGCCAGTCTCGGGCGTCCCGGTCAGTGTCCAGCTGCCGCGGCCTCGGCCCGGCGACTCCC
GCCCCAGCCCCCTTCCCTCCGCGGGCAGCGGCTCCCTCCCTCCCCAGAACAGCTGAAGGTCTCAGTCACCTCC
GAGGGGAGCGCAGGGGGAGGGGAGGGGCGGGGACGCGCGGAGGGGAGGTGGGGGAGCCTTGACGCTGCTGCCC
GGGACGCGGGCCCGGGCTGGTGGGAACAGGGGCGTCTCTGCGCGCCCCCTTCCAGCGTCCCACCTCCCGGC
GGCGCGGGGAAAGTCTCTCCGAAAGCGTGAAGGGGATTGGAGGAGGTTTTTATTCCCTTTGTGCGGGTGGCT
GGGGCCGGATCGAGGCGGGGGCGCGGGACTGGGGCTCCCCGCTGAGCCGAGAGGAGCGCGACAAAGGATG
CGTCCCGCCGGGGTACAGTCTCCGCGGCCAACTTTGCGCGCGCGCCCGCGCCCCCTGGGGAGCCCGCCGCTG
CGCTGAGAACCCAGGCGTCCGGGCTGGGAGAGGGGCGGGGAGCGTCCGCGAGGTGGCGCTGGCCCGGATCTCCGA
CCCCAGGAAGGGATCCCGAGCTTCTGGAGGCGCGGGCGGGCGGTGTGCTCCAGGGAACCGCGCTGCCGCGG
AAACTCCGCGCGCTCCGCGGATGCCCCCTCGCCCTAGCCCCAGCGCGGGGTTCCGGGGCCCTGCGAGGTCCCC
CCTTCCCCCGGGTGCTTCCCAAGCTGGGCTAAGCGGGCTTCTCTTCTCCCTCTCTGTGCGCTCTTTTCT
CCCCCTCGTTACCTTTTTCTTCCCTCTATCCATCCAGAGCCCCGCCAAAGGGCGCACCTGATCTTTCTCATCCT
TCCCTGCTTCTCCCTTCTCTCCACCTCTCTCTCTCTTGGGGAAAGGGGCCCGGAGAAGGGCATGTGGGGGCC
CCTCTGACAGTGCCCGATTGGGGTGACAGGCGCCAAATGGCCAAGTGGCTACGGGACTACCTGAGCTTTGGGG
GTGCGAGGCCCCCTCCGCGAGCGCCACCCCGGACTACACGAGAGCGACATCCTGAGGGCCTACCGCGCGCAGA
AGAACCTGGACTTCGAGGACCCCTATGAGGACGCGGAGAGCGCTTGGAGCCGACCCCGGGGCCCTGGGGACT
CCAAGAACCCCGGAGATGCCAAGTATGGTTCTCCCAAGCACCGGCTCATCAAGGTGGAGGCTGCGGATATGGCCA
GAGCCAAGGCCCTTCTGGGCGGCCCCGGGGAGGAGCTGGAAGCCGACACTGAGTATTTAGACCCCTTTGATGCTC
AGCCTCATCTGCACCCCCGGATGATGGGTACATGGAGCCCTACGATGCCCAATGGGTGATGAGTGAACCTCCCG
GCAGAGGGGTGCAGCTCTATGACACCCCTTATGAGGAACAGGACCCAGAGACAGCAGATGGACCCCTTCTGGGC
AGAAGCCTCGGCAGAGCCGGATGCCCCAGGAAGATGAACGGCCAGCAGATGAGTATGATCAGCCCTGGGAGTGGA
AGAAAGACCACATCTCCAGGGCGTTTGCAGTGCAGTTTGACAGTCCAGAGTGGGAGAGGACTCCAGGCTCAGCCA
AGGAGCTCCGGAGACCTCCGCCCAGAAGCCCCAGCCTGCGGAGCGTGTGGACCCAGCCCTGCCCTGGAGAAAC
AGCCGTGGTTTCATGGCCCCCTGAACAGGGCGGATGCAGAGAGCCCTCTGTCCCTCTGCAAGGAAGGCAGCTACC
TAGTGGGCTCAGTGAGACCAACCCCCAGGACTGCTCCTTGTCTCTCAGGAGCAGCCAGGGCTTCTGTCATCTGA
AGTTGCGCGGACCCGTGAGAACCAGGTGGTGTGGGCCAACACAGCGGGCCCTTCCCAGCGTGCCCGAGCTCG
TCTCCACTACAGTTCACGCCCCACTGCCGGTGCAGGTGCCGAGCATCTGGCTCTGCTGTACCCCGTGGTCACGC
AGACCCCCTGACAGTGACCTCGGCCCCCTTTTGTGCTCTCGGGCCAGAATCGTATCCCAAAGCCCTCCCATGG
CCTAGAAAATAAATAAGTTATTGTT

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FIGURE 5185

MAKWLRDYLSFGGRRPPPQPTPDYTESDILRAYRAQKNLDFEDPYEDAESRLEPDPAGPGDSKNPGDAKYGSPK
HRLIKVEAADMARAKALLGGFGEELEADTEYLDPFDAQPHAPPPDDGYMEPYDAQWVMSELPGRGVQLYDTPYEE
QDPETADGFFSGQKPRQSRMPQEDERPADEYDQPWEWKDTHISRAFAVQFDSPEWERTPGSAKELRRPPRSPQP
AERVDPALPLEKQPWFHGPLNRADAESLLSLCKEGSYLVRLSETNPQDCSLSLRSSQGFLHLKFARTRENQVVLG
QHSGPFPSVPFELVLHYSSRPLFPVQGAEHLALLYPVVTQTP

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FIGURE 5186

ACCCAGCGTGCGCGGGGCCCGCGGGCCGGGCGGGGTGACCTGGGCTGCAGCCATCGAAGAACAGAGGGAGGCC
TGAGGAAGATCATCAAAACACTGGCTGTGAAGAATGAAGAAATTCAGAGCTTTATCTACTCCCTGAAACAGATGC
TGCTGAACGTGGAGGCGAACTCGGCGAAGGTGCAGGAGGACCTCGAAGCAGAGTTCCAGTCCCTCTTCTCCCTCC
TGGAGGAGCTGAAAGAAGGCATGCTTATGAAGATAAAACAGGACCGTGCCAGCCGCACCTACGAGCTGCAGAACC
AGCTGGCTGCCTGCACGCGGGCCCTGGAGAGCTCCGAGGAGCTTCTGGAGACAGCCAACCAGACTCTGCAGGCCA
TGGACAGCGAGGACTTTCTCAGGCTGCCAAGCAAATCAAAGATGGAGTGACCATGGCCCCCTGCCCTCCGGCTAT
CATTGAAAGCGAAGGTCACTGACAACATGAGTCACCTCATGGTGGACTTCGCGCAAGAGCGGCAGATGCTACAGG
CACTCAAGTTCCTGCCTGTGCCCAGCGCACCCGTGATCGACCTGGCTGAGTCCCTGGTGGCAGATAACTGTGTGA
CCCTGGTGTGGCGCATGCCGATGAGGACAGCAAGATTGACCACTACGTGCTGGAGTACCGGCGGACCAACTTCG
AGGGCCCCGCCCGCCTCAAGGAGGACCAGCCCTGGATGGTCATCGAGGGCATCCGGCAGACAGAGTACACCCTGA
CAGGTCTCAAGTTTGTACATGAAATACATGAACTTCCGTGTGAAGGCCTGTAACAAGGCAGTTGCAGGAGAGTTCT
CTGAGCCGGTGACTCTGGAGACACCAGCGTTCATGTTCCGCTGGATGCGTCCACATCCCACCAGAACCTGCGGG
TGGATGATCTCTCCGTGGAGTGGGACGCTATGGGCGGGAAGGTGCAGGATATCAAGGCTCGCGAGAAAGATGGCA
AGGGGCGGACGGCGTCTCCCATCAACTCCCCAGCCAGAGGTACTCCATCTCCCAAGAGGATGCCCTCAGGTCTGTG
GGGACCGGACCGCTTACCGCTGAGTCCTACACAGTTCTGGGGGACACGCTGATCGACGGCGGGGAGCATTACT
GGGAGGTGCGCTACGAGCCGGACAGCAAGGCGTTCGGCGTGGGCGTGGCCTACCGCAGCCTGGGCCGCTTCGAGC
AACTGGGCAAGACGGCCGCTCCTGGTGCCTGCACGTCAACAATTGGCTGCAGGTCAGCTTCACGGCCAAGCACG
CCAACAAGGTCAAGGTGCTGGACGCCCCCGTGGCCGACTGCCTGGGTGTGACTGTGACTTCCACCAAGGCCTCC
TGTCTTCTACAATGCCCCGACCAAACAAGTGCTGCACACTTTCAAGACCAGGTTACACAGCCGCTGCTGCCTG
CTTTCACGGTATGGTGTGGCAGCTTCCAGGTGACGACAGGCCTGCAGGTCCCCAGTGTGTGCGCTGCCTGCAAA
AGCGAGGCAGTGCTACCAGCAGCTCCAACACCAGCCTCACCTAGGCCCCCAGGCACCCACCCAGCTGGGGTGT
TTGGGGGAGTCGCGCCAAGCCCAGGCTGCTGGAGCCAGGCACCCCTCCTCTGTCACTTGCTGCTTGGAGCCTTAA
CTCCAGATGGGGGGGTACCAAGAGGGAGTGGGCACCCCTGGCGGGCCCTCTCCCCACCTCACCTCTAATAAAGG
TCAGACACTGGCCAGGCAAAAAAAAAAAAAAAAAA

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FIGURE 5187

MEEQREALRKIIKTLAVKNEEIQSFIYSLKQMLLNVEANSKVVQEDLEAEFQSLFSLLEELKEGMLMKIKQDRAS
RTYELQNQLAACTRALESSEELLELETANQTLQAMDSDFQAAKQIKDGVMTAPAFRLSLKAKVSDNMSHLMVDFA
QERQMLQALKFLPVPSAPVIDLAESLVADNCVTLVWRMPDEDSKIDHYVLEYRRTNFEGPPRLKEDQPWMVIEGI
RQTEYTLTGLKFDMKYMNFRVKACNKAVAGEFSEPVILETPAFMFRLDASTSHQNLRVDDLSVEWDAMGGKVQDI
KAREKDCKGRTASPINSPARGTSPKRMPSGRGGRDRFTAESYTVLGDTLIDGGEHYWEVRYEPDSKAFGVGVAY
RSLGRFEQLGKTAASWCLHVNNWLQVSFTAKHANKVKVLDAPVPDCLGVHCDHFHQGLLSFYNARTKQVLHTFKTR
FTQPLLPFTVWCGSFQVTTGLQVPSAVRCLQKRGSAATSSSNTSLT

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FIGURE 5188

GCGGCGGGCGGCAGCATGTCGGTGGCGGGGCTGAAGAAGCAGTTCTACAAGCGAGCCAGCTGGTCAGTGAGAAG
GTCGGAGGGGCCGAGGGACCAAGCTGGATGATGACTTCAAAGAGATGGAGAAGAAGGTGGATGTCACCAGCAAG
GCGGTGACAGAAGTGCTGGCCAGGACCATCGAGTACCTGCAGCCCCAACCCAGCCTCGCGGGGCTAAGCTGACCATG
CTCAACACGGTGTCCAAGATCCGGGGCCAGGTGAAGAACCCCGGCTACCCGCAGTCGGAGGGGCTTCTGGGCGAG
TGCATGATCCGCCACGGGAAGGAGCTGGGCGGCGAGTCCAACCTTTGGTGACGCATTGCTGGATGCCGGCGAGTCC
ATGAAGCGCCTGGCAGAGGTGAAGGACTCCCTGGACATCGAGGTCAAGCAGAAGTTTATTGACCCCCCTCCAGAAC
CTGTGCGAGAAAGACCTGAAGGAGATCCAGCACCACTGAAGAACTGGAGGGCCGCCGCTGGACTTTGACTAC
AAGAAGAAGCGGCAGGGCAAGATCCCCGATGAGGAGCTACGCCAGGCGCTGGAGAAGTTTCGAGGAGTCCAAGGAG
GTGGCAGAAACCAGCATGCACAACCTCCTGGAGACTGACATCGAGCAGGTGAGTCAGCTCTCGGCCCTGGTGGAT
GCACAGCTGGACTACCACCGGCAGGCCGTGAGATCCTGGACGAGCTGGCGGAGAAGCTCAAGCGCAGGATGCCG
GAAGCTTCCTCACGCCCTAAGCGGGAGTATAAGCCCCAAGCCCCGGGAGCCCTTTGACCTTGGAGAGCCTGAGCAG
TCCAACGGGGGCTTCCCTGCACCACAGCCCCAAGATCGCAGCTTCATCGTCTTTCCGATCTTCCGACAAGCCC
ATCCGACCCCTAGCCGGAGCATGCCGCCCTGGACCAGCCGAGCTGCAAGGCGCTGTACGACTTCGAGCCCGAG
AACGACGGGGAGCTGGGCTTCCATGAGGGCGCAGTCACTACGCTGACCAACCAGATCGATGAGAAGTGGTACGAG
GGCATGCTGGACGGCCAGTCGGGCTTCTTCCCGCTCAGCTACGTGGAGGTGCTTGTGCCCTGCCGAGTGACTC
ACCCG†GTCCCCGCCCGCCCTCCGTCCACACTGGCCGGCACCCCTGCTGGGTCTCCTGCATTCCACGGAGCC
CCTGCTGCCAGGGCGGTGCTGAGCCTGCCGGCGCCACCTGGGCCCGGCCCTTGAGGTACTCCCTGAGCAGGAC
CCCACACTTGGGTGGGGGGGCTTATCTGGGTGGGTGGGGATGCCTGTTTACACTAGCGCTGACTCCCAACGGTGA
CGGCTCCCTTCCCCACTCCATGGCGCCAGCCTCCTCCCCGCTCCCCAACTTCTCGCCAGCTGGCCGAGGCGGG
GCAACACTAAGGTGCTCTTAGAAACACTAATGTTCTCTGGGGCAGCCCCACCTCCGTCTGACCCGACGGGGG
CCCGGCCCACTGCCTACCTCGAGTCCCGCAGCCTTAACAGGATGGGATCGAGGGTCCCCATGGGGTGGCTCAGA
GATAGGACCTGGTTTTTAATCCCTCCCAGCCTGGTGTGGTGATGGGCCCTGGCCCTACTCCAGGGCCAATGCA
CCCCCGCTCACACACGCACTCCTTCTCTCAAGGCCAGGGCAGAGGGCCTCACCAGCTCCCGGGCCTGCTGTCA
GCTTGACGCCCCGGGACAGAGGCCAGCTGGGATCTGCCTGAGGACAGAGAACATGGTCTCCTGCAGGGCCCTGCC
TCCCAAGCCCCGCCCTCAGAAAGCCAAGTACCTTTTCAGCTTTTAACTGCCCCCATCCCAACCCAGGGAGGCCT
GTGTCACTCTGGCACAAGCTGCCACCACAGCCACCCACCCAGCACACCTCACACGGGACCACAGCCG
CGCTGCCGAGGGCCAAGCACAAAGGTTCCAGTGAGCGCATGTCCAGCCCTGGTGGCCAGGCTCCCTTGCTGAG
CCGCTGCCACTTACCCTGTGGGAAGTGGCCCCAGCCATCTCCTCTAGACCAAGGCAGGCAGCCCCGACATCTGC
TTCCTCTATCGCCCAATGCAAAATCGATGAAATGGGGAGTTCTCTGGGCCAGGCCACATTACATTTCCCTCCCT
CTGTGGTCCAGTGAAGTCCGGACCCAGGCTCTGCTCTGCCCTGCCCTGCACCCCTCGTCAGAAGTACATGA
GGGGCGCAGAGATGAGCACACAGCTTTGGGCACGGTCCAGGGCAAAGTGAATGTACGCCTGAATTTGTAAACA
GAAGTATTAAATGTCTCTTTCTAC

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FIGURE 5189

MSVAGLKKQFYKASQLVSEKVGGAEGTKLDDDFKEMEKKVDVTSKAVTEVLARTIEYLQPNPASRAKLTMLNTVS
KIRGQVKNPGYPQSEGLLGECMIRHGKELGGESNFGDALLDAGESMKRLAEVKDSL DIEVKQNFIDPLQNLCEKD
LKEIQHHIKKLEGRRLDFDYKKKRQ GKIPDEELRQALEKFEEESKEVAETSMHNLLET DIEQVSQLSALVDAQLDY
HRQAVQIILDELAEKLRMRREASSRPKREYKPKPREPFDLGEPEQSNGGFPCTTAPKIAASSSFRSSDKPIRTPS
RSMPPLDQP SCKALYDFEPENDGELGFHEGDVITLTNQIDENWYEGMLDGQSGFFPLSYVEVLVPLPQ

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FIGURE 5190

TTTTCTTCCGGGGGCTGGTCTCCGGCGGCCCCGTCCCCGACTGGGCCCCGTGCCCCCCGCCCCCGGGCCCCC
GCCGCCGGGCCAGCCGCCACCATGAAGAAATTCTTTCAGGAGTTCAAGGCCGACATCAAGTTCAAGAGCGCGGGA
CCCGGTCAAGAGCTCAAAGAGTCCGTGGGGGAAAAGGCCACAAAGAGAAGCCCAACCAGCCAGCCCCAGGCCG
CCCCGCCAGGGACCCACCAATGAGGCACAGATGGCAGCCGCTGCTGCCCTAGCCCGGCTGGAGCAGAAGCAGTCC
CGGGCCTGGGGCCCCACATCGCAGGACACCATCCGAAACCAGGTGAGAAAGGAACCTCAAGCCGAAGCCACCGTC
AGCGGGAGCCCCGAGGCCCCAGGGACCAACGTGGTATCTGAGCCCAGAGAGGAAGGCTCTGCCACCTGGCTGTG
CCTGGCGTGTACTTCACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCCTGCATCAAGGAG
GCCATTCTCTTGCACTTCTCCACCGACCCAGTGGCCGCTCCATCATGAAGATCTACACGTTCAACAAAGACCAG
GACCGGGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCCGAGGAGGAGAAG
TACCGGAAGATCAAGCTGCAGAACAAGGTGTTTCAGGAGCGCATTAACTGCCTGGAAGGGACCCACGAGTTTTTT
GAGGCCATTGGGTTCCAGAAGGTGTTGCTTCCCGCCCAGGATCAGGAGGACCCCGAGGAGTTCTACGTCTGAGC
GAGACCACCTTGGCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCGGAGCCCGTGC GCGCC
AAGCTGGACAGGCAGCGCCGCTCTTCCAGCCCTCGCCCTGGCCTCGCAGTTCGAACTGCCTGGGGACTTCTTC
AACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGCGGTGGAGCGGCTGAGCGTCTGCGG
ACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAGTACAACCTACACGCTGCTGCGCGTGC GCGCTC
CCCGATGGCTGCCTCTCTGAGGGCACTTTCTACGCTCGGGAGCGGCTGGGGGCGGTGTACGGGTTCTGTCGGGAG
GCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCTGGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCTG
GCCTTGAACGAGTGCGGGCTGGTGCCCTCTGCCCTCCTGACCTTCTCGTGGGACATGGCTGTGCTGGAGGACATC
AAGGCCGCGGGGCGGAGCCGGACTCCATCCTGAAACCCGAGCTCCTGTGAGCCATCGAGAAGCTCTTGTAAT
AAAAGCAGGGTTGGCCTCAGCCCTGTGGGTCTGTCTCATGCTCTCCCTGTTCTCTCCCCGCCACCCAGGGCCT
CCAAGCCACCTCTGGAATACTTGGCTCTGCCCCATGGGCACGGGAGGGGCGCCAGCCGTGGAGCTGTGGAATTG
GGCCCCGTGGCAGAGCCCCATCCCTTGGGGGCTGTGGGGATGCGCCCAAGCCCCGAGGGAGAGGCTGGGGAC
ACCAAC

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FIGURE 5191

MKKFFQEFKADIKFKSAGPGQKLKESVGEKAHKEKPNQAPRPPRQGPTNEAQMAAAALARLEQKQSRWGPST
QDTIRNQVRKELQAEATVSGSPEAPGTNNVSEPREEGSAHLAVPGVYFTCPLTGATLRKDQDACEIKEAILLHFS
TDPVAASIMKIYTFNKDQDRVKLGVDTIAKYLDNIHLHPREEKYRKIKLQNKVFQERINCLEGTHEFFEAGFQK
VLLPAQDQEDPEEFYVLSETTLAQPSLERHKEQLLAAEPVRAKLDQRQRRVFQPSPLASQFELPGDFFNLTAEEI
KREQRLRSEAVERLSVLRKAMREKEEQRGLRKYNYTLRVRLLPDGCLLQGTIFYARERLGAVYGFVREALQSDWL
PFELLASGGQKLSDENLALNECGLVPSALLTFSWDMVLEDIKAAGAEPSILKPELLSAIEKLL

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FIGURE 5192

GTCTACCCGCCCCTGCCCTGAGGACCCTAGTCCAACATCGCGGCGCCAGCGGAGGGTGGAAACGGCGTCGGCGCG
AGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCCACGACGGTG
GCGTTTGACGTGCGGCCCGGCGGCGTCGTGCATTCTTCTCCATAACGTGGGCCCGGGGACAAATATACGTGT
ATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAAGACCACCAG
CACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCTATCTGTACTTCACACAGTTCAAGGCAGAGGTGCGG
GGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCTCTGAAAAC
GAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCCAAGCTGGTG
ATTGTGGCCAAGGCATCGCGCACTGAGCTGTGACCAGCAGCCCTGTTGCGGGTGGCACCTTCTCATCTCCGGTGA
AGCTGAAGGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCCACTTCCTGCTGAGCTCTTCTGGACTCAGGATC
GCAGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCGACCTC
CAGCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTTCTATGTTTACCCAGGGGACCTCCTTTCAGATGAACTG
GGAAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGC

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FIGURE 5193

MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRPGGVVHSESHNVGPGDKYTCMFTYASQGGTNE
QWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAEVRAEIEYAMAYSKAAFERESDVPLKTEEFVTKTAVAH
RPGAFKAELSKLVIVAKASRTEL

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FIGURE 5194A

AAGGTGCCTGAGCCGGCGGGTCCCTGTGTCCGCCGCGGTGTCTCCCCGCTCCCGCCACTTCCGGGGTTCGCA
GTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCCGGGACGACCTGCCAGTCCGGCCGCCGCCAC
GTCCCGGTCTGTGTCCACGCCTGCAGCTGGAATGGAGGCTCTCTGGACCTTTAGAAGGCACCCCTGCCCTCCT
GAGGTGAGCTGAGCGGTTAATGCGGAAGGTTAAGAACTGCGCTGGACAAGGAGAACACCGGAAGTTGGAGAAG
CTTCTCGTGAATTCCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGCCGACCGAGCGACGCAGC
CGCCACAGATGACCCGGCCGCCGCTTCCAGGTGCGAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGG
CAGCCGCAAGTACTCGGGCCTCATTGTCAACAAGGCGCCCCACGACTTCCAGTTTGTGCGAAGACGGATGAGTC
TGGGCCCCACTCCACCGCTCTACTACCTGGGAATGCCATATGGCAGCCGAGAGAATCCCTCCTCTACTCTGA
GATTTCCAAGAAGGTCCGGAAGAGGCTCTGTGCTCCTGTCTGGAAGCAGATGCTGGATCATTTCAGGCCAC
GCCCCACCATTGGGGTCTACTCTCGGGAGGAGGAGCTGCTGAGGGAGCGGAAACGCTGGGGGTCTTCGGCATCAC
CTCCTACGACTTCCACAGCGAGAGTGGCCTCTTCTCTTCCAGGCCAGCAACAGCCTCTTCCACTGCCGCGACGG
CGGCAAGAACGGCTTCATGGTGTCCCTATGAAACCGCTGGAATCAAGACCCAGTGCTCAGGGCCCCGGATGGA
CCCCAAAATCTGCCCTGCCGACCCTGCCTTCTTCTCTTTCATCAATAACAGCGACCTGTGGGTGGCCAACATCGA
GACAGGCGAGGAGCGGCGGCTGACCTTCTGCCACCAAGTTTTATCCAATGTCTTGGATGACCCCAAGTCTGCGGG
TGTGGCCACCTTCGTCTATACAGGAAGAGTTCGACCGCTTCACTGGGTACTGGTGGTGCCCCACAGCCTCCTGGGA
AGGTTTCAGAGGGCCTCAAGACGCTGCGAATCTGTATGAGGAAGTCGATGAGTCCGAGGTGGAGGTCAATCACGT
CCCCTCTCTGCGCTAGAAGAAAGGAAGACGGACTCGTATCGGTACCCAGGACAGGCAGCAAGAATCCCAAGAT
TGCTTTGAACTGGCTGAGTTCCAGACTGACAGCCAGGGCAAGATCGTCTCGACCCAGGAGAAGGAGCTGGTGCA
GCCCTTCAGTCTGCTGTTCCCGAAGGTGGAGTACATCGCCAGGCGCGGTGGACCCGGGATGGCAATACGCCTG
GGCCATGTTCTGGACCGGCCCCAGCAGTGGCTCCAGCTCGTCTCTCCCCCGGCCCTGTTTATCCCCGAGCAC
AGAGAATGAGGAGCAGCGGCTAGCCTCTGCCAGAGCTGTCCCCAGGAATGTCCAGCCGTATGTGGTGTACGAGGA
GGTCACCAACGTCTGGATCAATGTTTCATGACATCTTCTATCCCTTCCCCAATCAGAGGGAGAGGACGAGCTCTG
CTTTCTCCGCGCAATGAATGCAAGACCGGCTTCTGCCATTTGTACAAAGTCACCGCCGTTTTTAAATCCCAGGG
CTACGATTGGAGTGAGCCCTTACGCCCCGGGGAAGATGAATTTAAGTGCCCCATTAAGGAAGAGATTGCTCTGAC
CAGCGGTGAATGGGAGGTTTTGGCGAGGCACGGCTCCAAGATCTGGGTCAATGAGGAGACCAAGCTGGTGTACTT
CCAGGGCACCAAGGACACGCCGCTGGAGCACCACCTCTACGTGGTCAGCTATGAGGCGGCCGCGGAGATCGTACG
CCTACCACGCCCGGCTTCTCCCATAGCTGCTCCATGAGCCAGAACTTCGACATGTTCTGTCAGCCACTACAGCAG
CGTGAGCACGCCGCCCTGCGTGACGTCTACAAGCTGAGCGGCCCCGACGACGACCCCTGCACAAGCAGCCCCG
CTTCTGGGCTAGCATGATGGAGGCAGCCAGCTGCCCCCGGATTATGTTCTCCAGAGATCTTCCATTTCACAC
GCGCTCGGATGTGCGGCTCTACGGCATGATCTACAAGCCCCACGCCTTGACGCCAGGGAAGAAGCACCACCGT
CCTCTTTGTATATGGAGGCCCCAGGTGCAGCTGGTGAATAACTCTTCAAAGGCATCAAGTACTTGGGCTCAA
CACACTGGCTCCCTGGGCTACGCCGTGGTTGTGATTGACGGCAGGGGCTCCTGTCAGCGAGGGCTTCGGTTTGA
AGGGGCCCTGAAAAACCAATGGGCCAGGTGGAGATCGAGGACCAGGTGGAGGGCTGCAGTTCTGTGGCCGAGAA
GTATGGCTTCATCGACCTGAGCCGAGTTGCCATCCATGGCTGGTCTACGGGGGCTTCTCTCGCTCATGGGGCT
AATCCACAAGCCCCAGGTGTTCAAGGTGGCCATCGCGGTGCCCCGCTACCGTCTGGATGGCCTACGACACAGG
GTACACTGAGCGCTACATGGACGTCCCTGAGAACACCAGCACGGCTATGAGGCGGGTTCCGTGGCCCTGCACGT
GGAGAAGCTGCCAATGAGCCCAACCGCTTGCTTATCTCCACGGCTTCTGGACGAAAACGTGCACCTTTTCCA
CACAACTTCTCGTCTCCCACTGATCCGAGCAGGGAAACCTTACCAGCTCCAGATCTACCCCAACGAGAGACA
CAGTATTCGCTGCCCCGAGTCGGGCGAGCACTATGAAGTCACGTTGCTGCACTTTCTACAGGAATACCTCTGAGC
CTGCCACCAGGGAGCCGCCACATCACAGCACAAAGTGCTGACGCTCCGCGGGGAACAGGCGGGAGGGACTGAG
TGGCCCGCGGGCCCCAGTGAGGCACTTTGTCCCGCCAGCGCTGGCCAGCCCCGAGGAGCCGCTGCCTTCACCGC
CCCGACGCTTTTATCTTTTTTAAACGCTCTTGGGTTTTATGTCCGCTGCTTCTTGGTTGCCGAGACAGAGAGA
TGGTGGTCTCGGGCCAGCCCCCTCTCTCCCCGCTTCTGGGAGGAGGAGTACACGCTGATGGGCACTGGAGAG
GCCAGAAGAGACTCAGAGGAGCGGGCTGCCTTCCGCTTGGGGCTCCTGTGACCTCTCAGTCCCCCTGGCCCCGCC
AGCCACCGTCCCCAGCACCCAAGCATGCAATTGCCTGTCCCCCGGCCAGCCTCCCAACTTGATGTTTGTGTT
TTGTTTGGGGGATATTTTTCATAATTATTTAAAGACAGGCCGGGCGCGGTGGCTCACGTCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGGCCAACATGGGGAACCC
GTCTCTACTAAAAATACAAAAATTAGCCGGGTGGTGGCGCTGCCTATAATCCAGCTACTCGGGAGGCTGA

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FIGURE 5194B

GGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTGCGGTGAGCCAAGATCGCACCATTGCACTCCAGCCTGGG
CAACAAGAGCGAAACTCTGTCTCAAAATAAATAAAAAATAAAAGACAGAAAGCAAGGGGTGCCTAAATCTAGACT
TGGGGTCCACACCGGGCAGCGGGGTTGCAACCCAGCACCTGGTAGGCTCCATTCTTCCCAAGCCCGAGCAGAGG
GTCATGCGGGCCCCACAGGAGAAGCGGCCAGGGCCCGGGGGGCACCACCTGTGGACAGCCCTCCTGTCCCCAA
GCTTTCAGGCAGGCACTGAAACGCACCGAACTTCCACGCTCTGCTGGTCAGTGGCGGCTGTCCCTCCCCAGCCC
AGCCGCCAGCCACATGTGTCTGCCTGACCCGTACACACCAGGGGTTCCGGGGTTGGGAGCTGAACCATCCCCAC
CTCAGGGTTATATTTCCCTCTCCCTTCCCTCCCCGCCAAGAGCTCTGCCAGGGGCGGGCAAAAAAAAAAAGTAAA
AAGAAAAGAAAAAAAAAAAAAA

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FIGURE 5195

TTCCAAGCTGGTTTTGAAGTCGCGGCAGCTGTTCTGGGACGTCCGGTTGACCGCGCGTCTGCTGCAGAGACCAT
GTCTGCCGACGGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGAAGAACCAGGTACAGCAGCCCAGTGTGGT
GGACCGTGTGGCCAGCATGCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGCAGCCTATGCCTCCACCAAGGA
GAGCTACCCGCACATCAAGACTGTCTGCGACGCAGCAGAGAAGGGAGTGAGGACCCTCACGGCGGGCTGCTGTGTC
CGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGATTGCATCAGCCAGCGAATACGCCACAGGGGGCTGGA
CAAGTTGGAGGAGAACCTCCCCATCCTGCAGCAGCCCACGGAGAAGGTCCTGGCGGACACCAAGGAGCTTGTGTC
GTCTAAGGTGTGCGGGGCCCAAGAGATGGTGTCTAGCGCCAAGGACACGGTGGCCACCCAATTGTGCGAGGCGGT
GGACCGCAGCCGCGGTGCTGTGCAGAGCGGCGTGGACAAGACAAAGTCCGTAGTGACCGGCGGCGTCCAATCGGT
CATGGGCTCCCGCTTGGGCCAGATGGTGTGAGTGGGGTCGACACGGTGTGGGGAAGTCGGAGGAGTGGGCGGA
CAACCACCTGCCCTTACGGATGCCGAACGGCCGCATCGCCACATCCCTGGATGGCTTTGACGTGCGGTCCGT
GCAGCAGCAGCGGCAGGAACAGAGCTACTTCGTACGTCTGGGCTCCCTGTGCGAGAGGCTGCGGCAGCACGCCTA
TGAGCACTCGCTGGGCAAGCTTTCGAGCCACCAAGCAGAGGGCACAGGAGGCTCTGCTGCAGCTGTGCGAGGTCCT
AAGCCTGATGGAACCTGTCAAGCAAGGCGTTGATCAGAAGCTGGTGAAGGCCAGGAGAAGCTGCACCAGATGTG
GCTCAGCTGGAACCAGAAGCAGCTCCAGGGCCCCGAGAAGGAGCCGCCCAAGCCAGAGCAGGTGAGTCCCGGGC
GCTCACCATGTTCCGGGACATTGCCAGCAACTGCAGGCCACCTGTACCTCCCTGGGGTCCAGCATTAGGGCCT
CCCCACCAATGTGAAGGACCAGGTGCAGCAGGCCCGCCGCCAGGTGGAGGACCTCCAGGCCACGTTTTCCAGCAT
CCACTCCTTCCAGGACCTGTCCAGCAGCATTCTGGCCCAGAGCCGTGAGCGTGTGCGCAGCGCCGCGAGGCCCT
GGACCACATGGTGAATATGTGGCCCAGAACACACCTGTACGTGGCTCGTGGGACCCTTTGCCCTGGAATCAC
TGAGAAAGCCCCGGAGGAGAAGAAGTAGGGGGAGAGGAGAGGACTCAGCGGGCCCCGTCTCTATAATGCAGCTGT
GCTCTGGAGTCTCAACCCGGGGCTCATTTCAAACTTATTTTCTAGCCACTCCTCCCAGCTCTTCTGTGCTGTCC
ACTTGGGAAGCTAAGGCTCTCAAAACGGGCATCACCCAGTTGACCCATCTCTCAGCCTCTCTGAGCTTGGAAGAA
GCCTGTTCTGAGCCTCACCTTATCAGTCAGTAGAGAGAGATGTCCAGAAAAATATCTTTTCAGGAAAGTTCTCCC
CTGCAGAAATTTTTTCTTGTAAATATCAGGAATATAGGCCGGGTGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGAACACCTGAGGTGAGGTGTTGAGACCAGCCAGGCCAACATGGTGAACCCC
GTCTCTACTAAAAATACAAAAAAAATGAGCCGGGCATGGTAGCAGGTGTCTGTTATCCCAGTTAGGAGGCTGAG
GCAAGAGAATCTCTTGAACTGAGAGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGG
GACAAGAGTGAGACTTAGTCTCA

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FIGURE 5196A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAACTGATGGGGGTTTTTGCTGTCCCTCCCCTCAGC
GCCGACACCATGTGGATCCAGGTTTCGGACCATGGACGGGAGGCAGACCCACACGGTGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAAACAGATGGAGGACGGCCATACCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCACAGACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCTCCACCCACGGTGAGGCGGCCGCCGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGATGCTCGGGACACGAAC
ATGGGGGCGTGTTTIGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCTCCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAATCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTGGGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCGCTCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCACATGGCCTTCCACATCTACTGCTGGACCCG
CCCCTCAGCAGTGTTCCCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGACGAAGAAGAGCGAAGATGGCTCGGCCACATCGTCTCAGCGGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTACGCGAGTCCGGTGTCCATCGGCCCCACGTGGCT
GGCATAACCGCCGGAGCAACGACGAGCGTACTCCCTAGTCTGGCGGGGGGCTATGAGGATGATGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTCGAGATCTTCCGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAACTACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTGCGGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCGAGAAGGGGAAGTCCGGG
TTTCTCGTGCGCTACCTTCTGCGGAGGACGATGATGAGCTGGCCCTTGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGCTTCGCGTCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCGGCAGGAGGTGGCCGAGCAGGGGCGGGTCCCCGCGCCGACATCCAAGAAAACCAAGGTGGA
GCCCTACAGTCTCACGGCCAGCAGAGCAGCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CCTGGCGTCACTCAAGGACCGGCCGCGAGCGGACGCCGTTCCAGTTGTTCTGAGTAAAGTGGAGGAGACGTT
CCAGTGTATCTGCTGTGTCAGGAGCTGGTGTTCGGCCCATCACGACCGTGTGCCAGCACACGTGTCAAGGACTG
CCTGGACAGATCCTTTCCGGCACAGGTGTTACGTGCCCTGCCTGCCCTACGACCTGGGCCGACGCTATGCCAT
GCAGGTGAACAGCCTCTGCAGACCGTCTCAACCAGCTCTTCCCGGCTACGGCAATGGCCGGTGATCTCCAAG
CACTTCTCGACAGGCGTTTTGCTGAAAACGTGTCGGAGGGCTCGTTCATCGGCACCTGATTTTGTCTTCTAGTGGGC
TTAACTTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAGGTTTGTCTTCTTTTTTTTTTTTATTTTATTTTTC
AAATCTATACATTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTGTCTTTGA
AAACATAAAAGCCTGCAATTTCTCGACAAAACAACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGT
GGAGGCTGTGATGTTTCTGGTGTCAGTTCTCAGAAGTTGCTGCCACCAACTCTTAAAGAAGGCACAGGATCA
GTCCTTCTCTCGGGTCTGGCCCCCAAGGTGAGAGCAAGCATCTTCTGACAGCATTTTGTATCTAAAGTCCAG
TGACATGGTTCCCGTGGTGGCCGTGGCAGCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAA
GGAAAAGAGGAAACATCTCGGCCTAGTTCAAACCTTTGCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCT
GAGATCCGCGTGAAAAGTCTCTGCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTC
TGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGCGGGCCACGGACGGACGCCAGCACACGAAG
TCAGTGAAGTGCCTTTGATTGCTTCTCTTTCTAAAGACGACAGTCTTTGTTGTAGCACTGAATTATTGAA
AATGTCAACCAGATTCTAGAACTGCGGTCTCCAGTTCTTCTGACACCGGATGGGTGCTTGGGAACCGTTTGA
GCCTTATAGATCATTTACATTCAATTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTTAAATTTT
TTTTTCTCTTAATGAACACATTTCTAAATGAATTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAAC
GTTAGGGTTTGGTTGTTTTTGTATTTTTTTCTTTTGAAAGGGTTTGTAAATTTTTCTAATTTTACCAA

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FIGURE 5196B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTAT
TTTAAAGGGTTTTTTTACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAG
GCTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

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FIGURE 5197A

GTCGCCAGCAACCGAGCGGGGCCCGGCCGAGCGGGGCTGGGGGTGCGACGCCGAGGGCGGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCAGAACCCAGCTGTAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGACGAGGAGCCACCGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGATGACCTTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCAGTGGAACATCGGGA
GCCTCCGGACCATCCTGGACATGGTGGAGCGCGAGTGGCGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCCTTCGCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCCTGGTACGCCATCCCAACAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTCGGACGCCTTCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCTGAAGA
AGTACGGGATCCCCCTTCAGCCGATCAGCAGGAGGCGGGGAATTCATGATCACATTTCCCTACGGCTACCAGC
CCGGCTTCAATCACGGGTTCAACTGCGCAGAACTTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGACGTGCCGAAGGACATGGTCAAGATCTCCATGGACGTGTTCTGTGCGCATCCTGCAGCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGTGGACCACACGCGGCCACGGCGCTCACAGCC
CCGAGCTGAGCTCCTGGAGTGATCCCGGGCTCGCTGAAGGCCAAGCTCCTCCGAGGTCTCACCGGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCTAGAGG
AGGCTGGGGGCGAGCTGAAGGAGGAGGCTGGGCCGAGGTTGACCCCGAGGAGGAGGAGGAGGAGCGCAGCCAC
TGCCACACGCGCCGGGAGGCGGAGGGCGCAGAAGGAGCGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCTGTGCCCCACAGCTGCCGCCCCGCTGTCTCACTTCCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCGGTGTGGGCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTCTGTGCCCCCTGAGGTGCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGGCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCTGCCAGCAGGCCTTTGAGC
ACTTTGCCCAAGAAGGTCCGACCTGGAAGGAACAGTTTCCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAGCCCGGGCCGAGAGGGGCAGGCACCGTCCACATTTTCAAAT
TGAAGATGGAGATCAAGAAGAGCCGCGCCATCCCCCTGGGCCGCGCCACCCGGTCCCCACTGTCCGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCCTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCTTGA
GGCCGCTGTCTCTGTCAGTGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAAAGGGCTGCCGGGCCACATTACCCTCCAAAGCCGTGAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGTGCCTGCCAACTCCTACATCGCGCAGCAGC
GGACCAGCCCCCTGATCGCTGCGGCAAGTGCTGCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCCCTGGACTGCGGAGTGCTGCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTAAGTCCGGAAGCGGATGAAGAAGGTGTGAGGTGCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCT
TCCAGTGACCTGCGCCACGCCGAGGCGTGTCTATGGAGCCGAGCAGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAAGTCGGGGGTACGCTGTCCAACCTCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCATACCA
AGAACCGCAACGGGCTGTACTACCGCTGTGCGTCATCGGTGCCGCTCGCAGACCTGCTACGAAGTGAAGTTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCAGGATAGGGACTGTGTCCAGCTGGGACCCCTT
CCGAGGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTCATCTCCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGGAGACGGTCCCAGCTGACGGTGAGCGTGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTACTGAGCACGGGGGCACCGCAGGAGCCCGCCTTCTCGGGG
AGGAGGCCAAGGCCCAAGCGCCCGGTGTGGGCAACCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGGAGAGCCTCTGCAGGTGCAGGGCCGGCCCGGAGCCCCCTTCTAGGACAGCTGCCGCTCA
GGCGACCCTCAGCCCGGCGGGGAGGCCATGGCATCCCCGGGCGTTGCTTGCTGTGAATTCCTGTCTCTGTGTC

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FIGURE 5197B

CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAAACCACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAAATATCCCCAAAGTTGTTTTCTAGATTGTGGCTTTAAGAAAAACAAAACAAAACAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTCAGAGCATCTCGCTGTTTTTTTTTGTGTTGTTTTTAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGCAGGACGC
CCCGGTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCCTGTGCCACTCTGTGCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGTCTGGGGCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCTCGGGGT
TGCTATCTTTGTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGACAGCAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTTGGACAGCTTCCCAGCTC
TTCGGGTACAACCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCCTTTCGCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTTGAGCTGATAGAGAAAAACGGCCTTCAGCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTAATAAACAATAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCACTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCAAAAAAAAAAAAAAGCAATGTTTATATTATAAAAGAGTGTCTTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTACGCAGGAGCAAGCCTTTCATTTCTTGGTGGGGGAGGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTGGGGGAGGTGGGGGGTGTAGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAATATGCTATTATATTGTAAAGAAGCG
GGCGGGTGCCCCGTGCTGCCCTTGTCCTTGGGGGTCACCCATCCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGGAGCTGCACACTCTCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCCTCTAGGTTTATAATGAATTAAAGGTTTATGAACGCTGC

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FIGURE 5198

MGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPKEWKPRQTYDDIDDDVVIPAPIQQV
VTGQSGFLTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDDLERYWKNLTFVSPYIYGADISGSLYDDDDVAQWN
IGSLRTILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGEPKSWYAIPPEHGKRLERLAI
GFFPGSSQGCD AFLRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY
GKVATQCTCRKDMVKISMDVFRILQPERYELWKQKDLTVLDHTRPTALTSPELSSWSASRASLKAKLLRRSHR
KRSQPKPKPEDPKFPGEGTAGAALEEAGGSVKEEAGPEVDPEEEEEEPQLPHGREAEAEEDGRGKLRPTKA
KSERKKKSFGLLPPLPPPAHFPSEEALWLPSPLEPPVLGP GPAAMEESPLPAPLNVVPPEVPSEELEAKPRPI
IPMLYVVPRPGKAAFNQEHVSCQQAFAHFQAQKPTWKEPVSPMELTGPEDGAASSGAGRMETKARAGEGQAPSTF
SKLKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDALRPLLSLQWKNRAASFQAERKFNA
AAARTEPYCAICTLFYPYCQALQTEKEAPIASLGKGC PATLPSKSRQKTRPLIPEMCF TSGGENTEPLPANSYIG
DDGTSPLIACGKCC LQVHASCY GIRPELVNEGWTCSRCAAHAWTAECCLCNLRGGALQMTTDRRWIHWICAIAPV
EARFLNVI ERHPVDISAIPEQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTSFHVTC AHAAGVLM EPDDWPYVVS
ITCLKHKSGGHAVQLLRAVSLGQVVITKNRNGLYYRCRVIG AASQTCYEVNFDDGSYSDNLYPESITSRDCVQLG
PPSEGELVELRWDGNLYKAKFISSVTSHIYQVEFEDGSQ LTVKRGDIFTLEELPKRVRSRLSLSTGAPQEPAF
SGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 5199

TGCGACTGAGTCGGTGGCGAAGACGGAACGCGACGATGGCGGAGACTCTGCCCGGGTCGGGCGACTCGGGCCCT
GGCACGGCTTCTCTCGGCCGGGCGTTGCGGAGACTGGGACGAGGCGGCTCAGCGAGCTGCGGGTGATCGATCTG
CGGGCGGAGCTGAAGAAGCGGAACCTGGACACGGGCGGCAACAAGAGCGTCTGATGGAGCGGCTCAAGAAGGCG
GTTAAAGAAGAGGGGCAAGATCCTGATGAAATTGGCATCGAGTTAGAAGCCACCAGCAAGAAGTCAGCCAAGAGA
TGTGTTAAAGGACTGAAGATGGAGGAGGAAGGCACAGAAGATAATGGCCTGGAAGACGATTCCAGAGACGGGCAG
GAGGACATGGAAGCAAGTCTGGAGAACCTGCAGAATATGGGCATGATGGACATGAGTGTGCTAGACGAAACTGAA
GTGGCGAATAGCAGTGCTCCAGATTTTGGGGAGGATGGCACGGACGGCCTTCTCGATTCTTTTGTGATAGTAAA
GAATACGTGGCTGCACAGCTGAGACAGCTCCCGGCTCAGCCCCAGAGCATGCTGTGGATGGGGAAGGATTTAAG
AACACTTTGGAACCTTCATCGTTGAACCTCAAAGTAACTCCGGACATTGAAGAATCCCTTTTGGAGCCAGAAAAT
GAGAAAATACTCGACATTTTGGGGGAACTTTGTAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAG
CCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCGGAGGAAGAGGACCTATTTGACAGCGCC
CATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTG
TTAGCGGTAGTGAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTA
GAGCCGGCAGTTGAGCAGAGTAGTGCGGCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCC
ACGGAAGCCCCAAGCCAGAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTGATTTTGACGCTTGTAATGAA
GTCCCTCCGGCTCCTAAAGAGTCCTCAACCAAGTGAGGGCGCTGATCAGAAAATGAGCTCTTTTAAGGAAGAAAA
GATATAAGCCAATCATTAAAGATGAAAAAGTGGGTGCGCAGCGGTTCTGGTCGGAACCTGTGGGTGAGCGGG
CTGTCTCCACAACACGCGCTACGGATCTCAAGAACCTTTTTCAGCAAGTATGGGAAGGTTGTGCGGGCCAAAGTG
GTAACGAACGCCCCGAGCCCGGGGGCTCGATGCTATGGATTGCTCACCATGTCGACATCTGACGAGGCGACCAAG
TGCATCAGCCATCTCCACAGAACTGAGCTGCTGGACGAATGATCTCCGTAGAGAAGGCCAAAAATGAGCCTGCT
GGGAAAAAGCTTTCCGACAGAAAAGAGTGCGAAGTGAAGAAGGAAAAATTATCGAGTGTGACAGACATCATTCT
GTGGAGATCAAAATTGAAAAAAGTGAATTAAGAAGGAAGAGAAGATTGAGAAGAAGGAGGAAAAAAGCCTGAA
GACATTAAGAAGGAAGAAAAAGACCAGGATGAGCTGAAACCCGACCTACAAATCGGTCTAGAGTCACCAATCA
GGAAGCAGAGGAATGGAGCGGACGGTCGTGATGGATAAATCGAAAGGAGAGCCCGTCATTAGCGTGAAAACCACA
AGCAGGTCCAAAGAGAGAAGCTCCAAGAGTCAGGATCGCAAGTCAGAAAGCAAAGAAAAGAGAGACATCTTGTCG
TTTGATAAAATCAAAGAACAAGGGAGAGAGAGCGCCAGAGGCGAGCGGGAACGGGAGATCCGCGAAACGGAGAGG
CGGCGGGAGCGGAGCAGCGGGAGCGGGAGCAACGCCTCGAGGCTTCCATGAGCGGAAGGAGAAGGCCCGGCTA
CAGCGGGAACGCCTGCAGCTCGAGTGCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAGCGGCTGGAG
CGCGAGCGCATGCGCGTGGAGCGTGAGCGCAGGAAGGAGCAGGAGCGCATCCACGCGAGCGCGAGGAGCTGCGG
CGCCAGCAGGAGCAGCTGCGTTACGAGCAGGAGCGGCGGCCCGGGCGGAGGCCCTACGACCTGGACCGACGAGAT
GATGCCTATTGGCCAGAAGGAAAGCGTGTGGCAATGGAGGACCGATATCGTGCAGACTTTCCCGGCCAGACCAC
CGCTTTCAGACTTCGATCATCGAGACCGGGGCCAGTACCAGGACCACGCCATCGACAGGCGGGAGGGTTTCGAGG
CCAATGATGGGAGACCACCGGATGGGCAGCACTATGGAGATGACCGCATGGCCACGGAGGACCCCAAGAGCGC
CACGGCCGGGACTCCCGTGATGGCTGGGGGGGCTACGGCTCCGACAAGAGGCTGAGTGAAGGCCGGGGGCTGCCC
CCTCCCCCAGGGGTGGCCGTGACTGGGGAGAGCACAACCAGCGGCTAGAGGAGCACCAGGCACGCGCCTGGCAG
GGTGCCATGGACGAGGCGCGCTAGCCGGGAGCAGCCAGGTGGCAAGGTGGCGAGAGGGGCTGTCTGGGCCC
TCGGGGCCGGGGCACATGGCAAGCCGCGGTGGAGTGGCGGGGCGAGGCGGCTTGCACAAGGTGGACATTCCCAG
GGCCACGTGGTGCCAGGTGGCGGACTGGAAGGTGGCGGAGTGGCCAGCCAGGACCGGGGCGAGAGTCCCTCAC
CCACACCTCATCCCCCCCCGTACCCCCACTTCACCCGCCGCTACTAAGTCCCACTCGCTGTGAGTTTTTCGGGTG
GGCAGACGCACTGTTGAATCTGTTAGCCAGGGTTCCTCGAACTTGGGGGATCTTTTAAAGCAAAGTAAATCC
TGCCACCATGTTGTAGCTCAATACAATGTGAATCACTTTTTTTTTTTTTTAAATAAATGTGTTCTGTCTGTC
CATTTTTAAATCAAGGTTTCTGTTAACGAGGCAATCCATTTTCCATTAATAAAGTTTACCATTGCAAAAAAAA
ATGTGTTCTGTCTGCCATTTTAAATCAAGGTTTCTGTTAACGAGGCAATCCATTTTCCATTAATAAAGTTTA
CCATTGCG

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FIGURE 5200

MAETLPGSGDSGPGTASLGPVGAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERLKKAVKEEGQDPDEIG
IELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDQEDMEASLENLQNMGMMDMSVLDETEVANSSAPDFGED
GTDGLLDSFCDKEYVAAQLRQLPAQPPEHAVDGEFGKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCK
SEPVKEESSELEQFFAQDTSSVGPDRKLAEEEDLFDSAHPPEGLDLASESTAHQAQSSKADSLAVVKREPAEQP
GDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPEARDESKEDGRKFDFDACNEVPPAPKESSTSE
GADQKMSSFKEEKDIKPIIKDEKGRVGSGRNLWVSGLSSTTRATDLKNLFSKYGKVVGAQVVTNARSPGARC
GFVTMTSDEATKICISHLRTELHGRMISVEKAKNEPAGKKLSDRKECEVKKEKLSSVDRHHSVEIKIEKTVIKK
EEKIEKKEEKPEDIKKEEKDQDELKPGPTNRSRVTKSGSRGMERTVMDKSKGEPVISVKTTSSRSKERSKSKSD
RKSESKEKRDILSFDKIKEQRERERQREREREIRETERRREREQREREQRLEAFHERKEKARLQRERLQLECRQ
RLERERMERERLERERMRVERERRKEQERIHREERELRQOEQLRYEQERRPGRRPYDLDRRDDAYWPEGKRVAM
EDRYRADFPDPDRHFDHFDHRRDQYQDHAIDRREGSRPMMGDHRDQGHYGDDRHHGGPPPERHGRDSRDGWGGY
GSDKRLSEGRGLPPPPRGGRDWGEHNQRLLEEHQARAWQGAMDAGAASREHARWQGGGERGLSGPSGPGHMASRGGV
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPPPPYPHFTRY

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FIGURE 5201

GACCGGGGCGTGCGGAGGGATGTGGCCCGGAATATTGGTAGGGGGGGCCCGGGTGGCGTCATGCAGGTACCCCGC
GCTGGGGCCTCGCCTCGCCGCTCACTTTCCAGCGCAGCGGCCGCCGACGCGGACACTCCAGAACGGCCTGGCCCT
GCAGCGGTGCCTGCACGCGACGGCGACCCGGGCTCTCCCGCTCATTCCCATCGTGGTGGAGCAGACGGGTTCGGG
CGAGCGCGCCTATGACATCTACTCGCGGTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCAGATCGATGACAG
CGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCTGCAATCCGAGAGCAACAAGAAGCCCATCCACATGTACAT
CAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTCAACCCGATCTG
CACCTGGTGCCTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCACCCCAGGCATGCGCCACTC
GCTCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCAAGCCACAGACATTGCCATCCA
GGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCCAAGCACACCAAACAGAGCCTGCAGGT
GATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGGAGGCCAGGAGTTTGGCATCTTAGACAAGGT
TCTGGTCCACCCTCCCAGGACGGTGAGGATGAGCCACGCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGC
AGCAGAACCTGTCCAGCTAGCACCTTGAGAGCTGGGCCTCCTCTCCAGAATCATGTGGAGGGGCCAGAGGCTTGC
CAGACCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGGAGGGGCCTTTGAGGAACTTTTAATTTGCA
GGGGTGCCCGCTATGGACGGGGCATTCCAGCTGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTT

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FIGURE 5202

MWPGILVGGARVASCYPALGPRLAAHFPAQRPPQRTLQNGLALQRC LHATATRALPLIPIVVEQTGRGERAYDI
YSRLLRERIVCVMGPIDDSVASLVIAQLFLQSESNKKPIHMYINSPGGVV TAGLAIYDTMQYILNPIC TWCVGQ
AASMGSLLLAAGTFGMRHSLPNSRIMIHQPSGGARGQATDIAIQAE EIMKLKKQLYNIYAKHTKQSLQVIESAME
RDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

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FIGURE 5203

TGTGGAGCGAAGCCTTGTTCCCGCGTTGAGCCGCCGCCGCCGCCGCCCTCCTCAGCTTCAGCCTCCGCGCCAG
GCCCGGCCCGCCCGCGCCATGTCGGACTACAGCACGGGAGGACCCCCGCCCGGGGCCCGCGCCCGCCCGCGGG
GGCGGGGGAGCCGGAGGCGCCGGGGGAGGCCCTCCGCCGGGCCGCCAGGCGCGGGGGACCGGGCGGCGGGCGGT
CCCTGCGGGCGCGCCCGGGCGGGGGTTCGGCCGGGGGCCCTCTCAGCCACCCGCGGAGGCGGCCCGGGAATC
CGCAAGGACGCTTTCGCCGACGCCGTGCAGCGGGCCCGCCAGATTGCAGCCAAAATTGGAGGCGATGCTGCCACG
ACAGTGAATAACAGCACTCCTGATTTTGGTTTTGGGGGCCAAAAGAGACAGTTGGAAGATGGAGATCAACCGGAG
AGCAAGAAGCTGGCTTCCAGGGAGACTCAATCAGTTCTCAACTTGGACCCATCCATCCTCCCCAAGGACTTCA
ATGACAGAAGAGTACAGGGTCCCAGACGGCATGGTGGGCCTGATCATTGGCAGAGGAGGTGAACAAATTAACAAA
ATCCAACAGGATTAGGCTGCAAAGTACAGATTCTCCAGACAGCGGTGGCCTACCCGAGCGCAGTGTGTCTTG
ACAGGAGCCCCAGAATCTGTCCAGAAAGCCAAGATGATGCTGGATGACATTGTGTCTCGGGGTCTGGGGGCCCC
CCAGGACAGTTCCACGACAACGCCAACGGGGGCCAGAACGGCACCGTGCAGGAGATCATGATCCCGCGGGCAAG
GCCGGCCTGCTCATTGGCAAGGGCGGGGAGACCATTAAAGCAGTGCAGGAACGCGCTGGAGTGAAGATGATCTTA
ATTAGGACGGATCTCAGAATACGAATGTGGACAAAACCTCTCCGCATCATTGGGGATCCTTACAAAGTGCAGCAA
GCCTGTGAGATGGTGTGACATCCTCCGGGAACGTGACCAAGCGGCTTTGGGGACCGGAATGAGTACGGATCT
CGGATTGGCGGAGGCATCGATGTGCCAGTGCCAGGCATTCTGTTGGCGTGGTCATTGGCCGGAGTGGAGAGATG
ATCAAGAAGATCCAGAATGATGCTGGCGTGGGATACAGTTCAAGCAAGATGACGGGACAGGGCCCCGAGAAGATT
GCTCATATAATGGGGCCCCCAGACAGGTGCGAGCACGCAGCCCGGATCATCAACGACCTCCTCCAGAGCCTCAGG
AGTGGTCCCCCAGGTCTCTCAGGGGTCCAGGCATGCCCCGGGGGGCCGAGGCCGAGGAAGAGGCCAAGGCAAT
TGGGGTCCCCCTGGCGGGGAGATGACCTTCTCCATCCCCACTCACAAGTGTGGGCTGGTCATCGGCCGAGGTGGC
GAGAATGTGAAAGCCATAAACCAGCAGACGGGAGCCTTCGTAGAGATCTCCCGGCAGCTGCCACCCAACGGGGAC
CCCAACTTCAAGTTGTTTCATCATCCGGGGTTCACCCCAGCAGATTGACCACGCCAAGCAGCTTATCGAGGAAAAG
ATCGAGGGTCTCTCTGCCAGTTGGACCAGGCCAGGTGGCCAGGCCCTGCTGGCCCAATGGGGCCCTTCAAT
CCTGGGCCCTTCAACCAGGGGCCACCCGGGGTCCCCCACATGCCGGGGGGCCCCCTCCTCACCAGTACCCACCC
CAGGGCTGGGGCAATACCTACCCCCAGTGGCAGCGCCTGCTCCTCATGACCCAAGCAAAGCAGTGCAGCGGCC
GCGGACCCCAACGCCGCGTGGGCCGCTACTACTCACTACTACCAGCAGCCCCGGGGCCCCGTCCCCGGCCCC
GCACCGGCCCTGCGGCCCCACCGGCTCAGGGTGAAGCCCCCTCAGCCCCACCCACCGGCCAGTCGGACTACACT
AAGGCCTGGGAAGAGTATTACAAAAAGATCGGCCAGCAGCCCCAGCAGCCGGAGCGCCCCACAGCAGGACTAC
ACGAAGGCTTGGGAGGAGTACTACAAGAAGCAAGCGCAAGTGGCCACCGAGGGGGTCCAGGAGCTCCCCAGGC
TCCAGCCAGACTACAGTGCCGCTGGGCGGAATATTACAGACAGCAGGCCGCTTACTACGGACAGACCCAGGT
CCTGGCGGCCCCAGCGCCGCCACGCAGCAGGGACAGCAGCAGGCTCAATGAATGCAATGAATGTGAATTCT
TCATCTGTGAAAAATCTTTTTTTTTTCCATTTTGTCTGTTTGGGGGCTTCTGTTTGTGTTGGCGAGAGAGCGAT
GGTGCCGIGGGGAGTACTGGGGAGCCCTCGCGGCAAGCAGGGTGGGGGGGACTTGGGGGCATGCCGGGCCCTCAC
TCTCTCGCCTGTTCTGTGTCTCATATGCTTTTTCTTTCAAATTGGGATCCTTCCATGTTGAGCCAGCCAGAGAA
GATAGCGAGATCTAAATCTCTGCCAAAAAATAAACTTAAAAATTAAAAACACAAAGAGCAAAGCAGAACTT
ATAAAATTATATATATATATATATAAAGTCTCTATTCTTACCCCCAGCCTTCTGAACCTGCCTCTCTGAGG
ATAAAGCAATTCATTTTCTCCACCTCGGCCCTCTGTTTTTAAATAAACTTTTAAAAAGGAAAAAAGT
CACTCTTGCTATTTCTTTTTTTTAGTTAGAGGTGGAACATTCTTGGACCAGGTGTGTATTGCAGGACCCCTTC
CCCCAGCAGCCAAGCCCCCTCTCTCTCCCTCCCGCCTGGCTCAGCTCCCGCGGCCCGCCCGTCCCCCTCCC
AGGACTGGTCTGTTGTCTTTTCATCTGTTCAAGAGGAGATTGAACTGAAAACAAAATGAGAACAACAAAAAAA
TTGTATGGCAGTTTTTACTTTTTATCGCTCGTTTTTAACCTCACAAATAAATGATAACAAACCTCAAAAAAAA
AAAAAAA

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FIGURE 5204

MSDYSTGGPPPGPPPPAGGGGGAGGAGGGPPPGPPGAGDRGGGGPCGGGPGGGSAGGPSQPPGGGGPGIRKDAFA
DAVQRARQIAAKIGGDAATTNNSTPDFGFGGQKRQLEDGDQPESKKLASQGDSISSQLGPIHPPPRTSMTTEEYR
VPDGMVGLIIGRGGEQINKIQQDSGCKVQISPDSGGLPERSVSLTGAPESVQAKMMLDDIVSRGRGGPPGQFHD
NANGGQNGTVQEIMIPAGKAGLVIGKGGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM
DILRERDQGGFGDRNEYGSRI GGIDVPVPRHSVGVI GRSGEMIKKI QNDAGVRIQFKQDDGTGPEKIAHIMGP
PDRCEHAARIINDLLQSLRSGPPGPPGGPGMPPGGGRGRGRGQGNWGPPGGEMTFSIPTHKCLVIGRGGENVKAI
NQQTGA FVEISRQLPFPNGDPNFKLFII RGSPQQIDHAKQLIEEKIEGPLCPVGP GPGGPGPAGPMGPFNP GPFNQ
GPPGAPPHAGGPPPHQYPPQG WGNTYPQWQPPAPHDPSKAAAAAADPNAAWAAYYSHYYQQPPGPVPGPAPAPAA
PPAQGEPPQPPPTGQSDYTKAWEEYYKKIGQQPQQPGAPPQDYTKAWEEYYKKQAQVATGGGPGAPPGSQPDYS
AAWAEYYRQAAYYGQTPGPGGPQPPPTQQGQQQAQ

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FIGURE 5205A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGGCGCTGGAGAGCGAGGAGACCATGGTCTGGAGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGCTGTCCAGTGAGAAGACTGTGTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGTGCTGAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTACCCGTCAACCACAAG
CTGCTACCCGTGGGCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACCTCGTCAACATGGGCCAGTGGAA
ATCCGAGCCTACTATGAAAACCTACCACAGCAGGTCCTTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTTCATAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAAGTGCCTTTGTCTCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCTGCTGAATCCCTCAAGCGCATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCCCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTCGTGACGAACCCGTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCCAGGGAGATGGC
GTGGCCAAACTCAGCATCAACACACACCCAGCCAGAAGCCCTTGAGCATCACGGTGCACGCAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGAGACCCTCAACGTCAACTTCTCTCTGCGAATGGAC
CGCGCCCCACGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCGCCAGGACCTGGTGGTGTGCCCTGTCCATCACCACCGACTTCATCCCTTCTTCCGC
CTGGTGGCGTACTACACGTGATCGGTGCCAGCGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCGTGCTG
AATAAGAAGAACAACCTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGTGCAACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCGCCCGCCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGGACCCGTTTCATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCTGGACTGCTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTGAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTCACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCTACTCTGTTGTTGAAACGAGCAGGTGGAAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAATACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCAAGTCCTCGTTGTCCGTTCCATATGTATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCTGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTCGCACCCTGGATCCAGAACGCTGGGCCGTGAA
GGAGTGAGAAAGAGGACATCCCACCTGCAGACCTCAGTGACCAAGTCCCGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTCGGCCTAGAGAAGCGGCAGGGGGCCTTGAGGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTGTGGCTGTCAACCTCATCGCCATCGACTCCAAGTCCTCTGCGGGGCTGTTAAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGTGCAGGAGGCTAAA
GATATTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCTTGAAGCCAACCTAC

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FIGURE 5205B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCGAAGCCTTGGCT
CAATACCAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTCCAGCCGAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCTTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAACTGTGCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCACCCCTGGAA
GAACGGCTGGACAAGGCCGTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTGAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAAACACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCCGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCAACTGACCACACCCCATTC

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FIGURE 5206

GGCCGCGGTGGTGGCTGCGGCGGCGGCGGCGGAGCAGCATGGATTGGGGCACTGAGCTGTGGGATCAGTTTCGAG
GTGCTCGAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAA
GTGGAACAGGCTTACGCCAAACAAGTGCAGGAGCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGAT
CCTGAGTCCAAATTCAGCCAGCAACAGTCCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGG
GAGCTGGTGGCTGAGAACCCTAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAG
AGGAAGATGCACTTCCAAGAAGGGCGGCGGGCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGT
AAGCGTAAATTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATC
AACGCCACCAAGGCTGATGTGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAA
AACGAATATGCGGCTCAACTGCAGCGCTTCAACCAGAGACCAAGCCCACCTTCTATTTTTCACAGATGCCCCAGATA
TTCGATAAGCTCCAAGACATGATGAACGCAGGGCCACCCGCTGGGTGCCGGGTATGGGCTCCTGTCCGAGGGCC
GAGCTGGAGGTGGTGCCCATTAATAGCCAAGTGCTTGGAGGGCATGAAGGTGGCTGCAAAATGCTGTGGATCCCAAG
AACGACTCCCACGTCTTATAGAGCTGCACAAGTCAGGTTTTTGCCCGCCCGGGCGACGTGGAATTCGAGGACTTC
AGCCAGCCCATGAACCGTGCACCTCCGACAGCAGTCTGGGCACCCCTCGGATGGACGGCCTGAACCTCCGAGGC
CCGGGTTCGAGCCGCACCAAGCGCTGGCCTTTTTGCAAGAAGAACAAGACAGTGGTGACCGAGGATTTTAGCCAC
TTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACCTTCAGAAGGAGGTT
GACCAGAGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCGCCAGCTTG
GAGCCCCAGATCGCTGAAACCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTG
GCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCGGCCTCCCGACCCCCC
GCTAGCGCCCCGCCAGACAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCA
GAAGAGAGCCAGGACACCCCCATTACACGGAGTTTGATGAGGATTTTCGAGGAGGAACCCACATCCCCCATAGGT
CACTGTGTGGCCATCTACCCTTTGAAGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGT
CTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTGAGCGGAAAGAGGGAGGCGAGGGCTACGTGCCCACC
TCCTACCTCCGAGTCACGCTCAATTGAACCCTGCCAGAGACGGGAAGAGGGGGGCTGTCGGCTGCTGCTTCTGGG
CCACGGGGAGCCCCAGGACCTATGCACTTTATTTCTGACCCGTTGGCTTCGGCTGAGACCTGTGTAACCTGCTGC
CCCCCTCCACCCCCAACCCAGTCTACCTGTACACCGGACGGACCCGCTGTGCCTTCTACCATCGTTCCACCATT
GATGTACATACTCATGTTTTACATCTTTCTTTCTGCGCTCGGCTCCGGCCATTTTGTTTTATACAAAATGGGT
TTTTTTTTTTCTTTAATATATTTCAAGAGATTTTTTTTTTTTTTTTTTTT

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FIGURE 5207

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQQSFVQ
ILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRKFERDCREAEK
AAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMDERRAT
RLGAGYGLLSEAELEVVP IIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL
GTPSDGRPELRGPGRSRTKRWPF GKKNKTIVVTEDFSHPPEQQRKRLQQLEERSRELQKEVDQREALKKMKDVY
EKT PQMGDPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRGDSL SRHARPPDPPASAPPDSSSNSAS
QDTKESSEEPPEESQDTP IYTEFDEDFEEPTSPIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRV
RRKEGGEGYVPTSYLRVTLN

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FIGURE 5208

CGGGGGTGACAGCAGCCCGGAGCGGCGGAGCCTCAGCTTCCGCCTGGACCCAGCCTCGTGGGAGCCCCGCGGGTC
CTGCCCAGATGTGGAAGACTGAGGCCTGTTGAAAGTGCAGAGCTCAGCCCTGGCACCCCTCTGTTCCCAAGAGCTC
CATGCAGGTGCCACAGGATGGAGAAGACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCCAGAAGGC
TGAAGCTCTTCTTCAGCAAGATGGCGACTTCTCGGTTTCGCGCCTCTGGGTCCCGTGGGGGCAACCCCGTGATCTC
CTGCCGCTGGCGGGGCTCAGCCCTCCATTTTGAAGTGTTCGTTGTGGCCCTGCGTCCCCGGCCAGGCCGACCCAC
AGCCCTCTTTCAACTGGAGGATGAGCAATTCCCCAGCATACCGGCTCTGGTTCACAGTTATATGACAGGCAGGCG
CCCACTGTCCAGGCCACAGGGGCTGTGGTCTCCAGGCCTGTGACTTGGCAGGGGCCTCTGCGACGCAGCTTTAG
CGAGGACACCCTGATGGATGGCCAGCTCGGATAGAGCCTCTCAGGGCAAGGAAGTGGAGCAACAGTCAGCCTGC
AGATTTGGCACATATGGGGCGGTCAAGAGAAGACCCCGCTGGGATGGAAGCCTCCACCATGCCATATCTGCCTT
GCCCCGAACGAGCAGTGACCCGGTGTGCTGAAGGCCCTGCTCCCTGGGAAGTGTGCGACAGTCTCAGGGC
CTCCGATGGGCAGCTTCAAGCCAAGGCACCAACGAAGCCCCCGACACCCTCCTTCGAACTGCCTGATGCCTC
TGAACGTCCCCGACGTACTGCGAGCTGGTGTCCCGAGTGCCAGTGTCCAGGGAACATCCCCGAGCCAAAGCTG
CCAGAGCCAGAGGCCCATGGTGGGAGGCCGAGGAGGATGAGGAGGAAGAGAATAGATGTTTTACAAGACCACA
GGCTGAGATCTCTTTCTGCCCCCATGATGCCCCCTCTGCTGCTGGGCCCCAGAATCGGCCCTGGAACCCCA
AGTCTGCATACCCTCCGTGGCCTGTTCTTGGAGCACCATCCTGGGAGCACCGCCCTTCACCTGCTATTGGTAGA
CTGCCAGGCCACAGGCCTCCTGGGAGTGACCAGAGATCAGCGGGGCAACATGGGAGTCTCATCTGGCCTGGAGCT
GCTCACTCTTCCCCATGGACACCACTTGAGGTTGGAAGTGTGAGAGGCATCAGACACTGGCGCTGGCCGGGGC
GCTGGCGGTGCTGGGCTGCTCGGGGCCGCTGGAGGAGCGCGCAGCCGCACTGAGGGGACTGGTAGAGCTGGCGCT
GGCGCTGCGGCCAGGGGCGGCGGGGGACCTGCCGGGCTGGCTGCAGTCATGGGCGCCCTGCTCATGCCCCAGGT
GTCCCGGTTGGAGCACACGTGGCGCCAGCTCCGAAGGAGCCACACGGAGGCTGCGCTGGCCTTTGAGCAGGAGCT
GAAGCCGCTGATGCGGGCTCTGGATGAGGGCGCTGGACCCTGCGACCCCGGCGAGGTGGCGCTGCCGCACGTGGC
ACCCATGGTTTCGCTACTGGAGGGCGAGGAAGTGCGGGGCCGCTGGACGAGAGCTGTGAGCGGCTGTTGCGCAC
CCTGCACGGGGCGCGTCACATGGTCCGGGACGCACCCAAATTCCGCAAGGTGGCAGCCAGCGCCTGCGAGGATT
CCGGCCTAACCCGGAGCTGAGGGAGGCCCTGACCACCGGCTTCGTGCGGAGGCTGCTCTGGGGTAGCCGGGGCGC
GGGAGCTCCGCGCGCTGAACGCTTTGAGAAGTTCCAGCGCTCCTCGGCGTCTGTGCGAGCGCCTGGAGCCTGA
CCGCT**TGA**GAGCGCAGACACCCTTCTTACACCCGGGACCCCCAGGTTTTTGCGAACCCAGAAGAGACCAAAGGA
GTCGTCCCAGGCTCCTCGGCCTCAGGTGGAATCCTGCCCTGTGCCTCACAGAAGAGGTGGGGACCGCAGTCAGG
GTCACCTGGACCATGGTGAACATGTGACCTGCAGATCTGGCATCAGAGGCCAGAGTTCAAATGTGACTCCACCTC
TTAAAAGCCGTGATTTCTAGCAGTTGACTTCACCTCTGTGTCGGCCTTTAACAAAATCATAGCCATACAGCAGCT
CAGGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGAAGGAAGGCTTGAGGCCAGGAGTTCAAGACCAGCCAG
GGCAACATGGTGAGACCTCATCTCTACAAAACTGAAAAATAAAAACTTTTAAAAATGTAAAAA

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FIGURE 5209

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQDGDFLVRASGSRGGNPVISCWRGSAHFVFRVALRPRPGRPT
ALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSREPVWQGPLRRSFSEDTLMDGPARIEPLRARKWSNSQPA
DLAHMGRSREDPAGMEASTMPI S ALPRTSSDPVLLKAPAPLGTVADSLRASDGQLQAKAPTKPPRTPSFELPDAS
ERPPTYCELVPRVPSVQGTSPSQSCPEPEAPWWEAEDEEEENRCFTRPQAEISFCPHDAPSCLLGPQNRPLEPQ
VLHTLRGLFLEHHPGSTALHLLLVDQCQATGLLGVTRDQQRNMGVSSGLELLTLPHGHHLRLELLERHQTLALAGA
LAVLGCSGPLEERAAALRGLVELALALRPGAAGDLPGLAAVMGALLMPQVSRLEHTWRQLRRSHTAALAFEQEL
KPLMRALDEGAGPCDPGEVALPHVAPMVRLLEGEVAGPLDESCERLLRTLHGARMVVDAPKFRKVAAQRLRGF
RENPELREALTTGFVRLLWGSRGAGAPRAERFEKFQVVLGVLSQRLEPDR

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FIGURE 5210

AGGGAAGACACGCGTGACCCGGAAGGTCTTCCCGCCACACTCCAGAGCGGATGTGAGGGGCGCCGATGGCGGAGG
GAACGGCGGAGGCTCCTCTAGAGAATGGTGGTGGTGGCGACTCGGGAGCCGGAGCTTTGGAACGAGGAGTGGCGC
CCATTAAGCGTCAATACCTCACCACCAAGGAGCAGTTTCACCAATTCCCTGGAAGCCAAAGGGCAGGAGAAGACTT
GCCGGGAAACCGAGCTGGACATCCGTGGCAAACCTTTACCTGGCCCCCTCACCACGTGTGGGAACCTGCCCTTCC
GACGGATCTGCAAGCGCTTCGGGGCGGATGTGACATGTGGAGAGATGGCCGTCTGCACCAACCTGCTGCAGGGCC
AGATGTCCGAGTGGGCCCTACTCAAACGCCACCAGTGTGAGGACATCTTTGGCGTCCAGCTGGAGGGCGCCTTCC
CCGACACCATGACCAAGTGTGCCGAGCTGCTGAGCCGCACCGTGGAGGTGGACTTTGTGGACATCAACGTCGGCT
GCCCCATCGACCTCGTGTACAAGAAGGGTGGGGGCTGTGCCCTCATGAATCGCTCCACCAAGTTCCAGCAGATCG
TCCGTGGCATGAACCAGGTGCTGGATGTGCCGCTGACTGTGAAGATCCGCACAGGCGTCCAGGAGCGTGTGAACC
TGGCGCACCGCCTGTGCCGAGCTGCCGGACTGGGGCGTGGCACTCGTCACGCTCCACGGCCGCTCTCGGGAGC
AGCGCTACACCAAGCTAGCCGACTGGCAGTACATCGAGGAGTGCCTGCAGGCCGCCAGCCCCATGCCCTGTTCG
GAAATGGGGACATCTTGTCAATTTGAGGATGCCAACCGCGCCATGCAGACTGGTGTACCCGGGATCATGATTGCC
GTGGCGCCCTGCTCAAGCCGTGGCTCTTCACGGAGATCAAGGAGCAGCGGCACTGGGACATCTCGTCTGCCGAGC
GCCTGGACATCCTGCCGGACTTCACCAACTACGGCCTGGAGCACTGGGGCTCGGACACGCAGGGCGTGGAGAAGA
CCCGGCGCTTTCTGCTCGAGTGGCTGTCTTCTGTGCCGTTACGTGCCCGTGGGGCTGCTGGAGCGGCTCCCAC
AGAGGATCAACGAGCGGCCGCCCTACTACCTGGGCCGCGACTACCTGGAGACGCTGATGGCCAGCCAGAAGGCAG
CCGACTGGATCCGCATCAGCGAGATGCTCCTTGGGCCAGTCCCCCCCAGCTTCGCCTTCTTGCCGAAGCACAAAG
CCAACGCGTACAAGTAGCCTCAGGCTTCCCAGGGGCACCCTGGGGCGAGGAGAGTACAATAAATTTTATTCTTT
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FIGURE 5211

MAEGTAEAPLENGGGGDSGAGALERGVAPIKRQYLTTKEQFHQFLEAKGQEKTCRETEVGDPAGNELAEPEAKRI
RLEDGQTADGQTEEAEPGEQLQTQKRARGQNKGRPHVKPTNYDKNRLCPSLIQESAAKCFFGDRCRFLHDVGRY
LETKPADLGPRCVLFETFGRCPYGVTCRFAGAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVR
ERAEQALRRFSQGPTPAAAVPEGTAAGAPRQENCGAQQVPAGPGTSTPPSSPVRTCGPLTDEDVVRLRPCEKKR
LDIRGKLYLAPLTTCGNLFFRRICKRFGADVTCGEMAVCTNLLQGQMSEWALLKRHQCEDIFGVQLEGAFPDTMT
KCAELLSRTVEVDFVDINVGCPIDLVIKGGGKCALMNRSTKFQQIVRGMNQVLDVPLTVKIRTGVQERVNLHRL
LPELRDWGVALVTLHGRSREQRYTKLADWQYIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALL
KPWLFTEIKEQRHWDISSERLDILRDFTNYLEHWGSDTQGVKTRRFLLEWLSFLCRYVPVGLLERLPQRINE
RPPYYLGRDYLETLMASQKAADWIRISEMLLGPVPPSFAFLPKHKANAYK

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FIGURE 5212

CGGGTTTTCCAATCTCTGTGTAGCTAGCAGTTCTCTTCGTGTTAGTGTGGCAGCCGTGCCAGTTCCACATTTGTG
ATTGCTTTATTTCCCTGGTAATTAAACCTTGTGCCATTCTATTCCCTGTTAAATCCGTAGAAAATGAGAAAATACT
CGACATTTTGGGGGAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAGCCATTGACACA
GGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCAGGAGGAAGAGGACCTATTTGACAGCGCCCATCCGGAAGA
GGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGT
GAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGT
TGAGCAGAGTAGTGC GGCCCTCCGAGCTCGCGGAGGCTCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCC
AAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGAATGAAGTCCCTCCGGC
TCCTAAAGAGTCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGGTTTGTTTTTCTCAGTTTTAGACCAGACG
CTATCTCCTTTTCATTGGTCATGTAATGACACACATAAGCTGTTTTTTCTGCAATTGGCCAGCCAGACTGACGA
AATTGTAGTTTTGCTTCTAAAGAATGTTTCGTTTCTCTTGTGTGTTTTTAATGGGTGATTCAATTCCTTTCTT
TTTCTCAACCTACCATGGTTGTGTTCTTAAATTCTTCTAATTACCTTTAGCCCAGCAGAATTAATTAACCTCTG
TGGGTCTGAAATCTTATGGTTAGGTCAGATTTTCAATACAAGTTTGTGCGGGTATCATTTTTTCAGAACTAAATT
TCGGGTAGGTATGCAACCTCAGCACGAATTTTATGGTTTTGAGTTTGTTCCTCCATGCTGCTTCCTTGTTGGAGT
GACATTGTCTTTTGTCTCTAGTTCTCCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGAGGAAAAGGGTCG
CAGCAGTTGTGTAGAAAATTTCTGGGTTAGTGGACTCTCTTCTACAACCAGAGCTACAGATTTGAAGAATCTTTT
CAGCAAATATGGGAAGGTGGTGGGCGCCAAGGTTGTGACAAATGCCCGGAGTCCTGGAGCTCGCTGTTACGGTTT
TGTCACGATGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACCTGCACAAGACGGAGCTCCACGGAAGAT
GATCTCCGTGGAGAAAGCCAAAATGAACCTGTGGGAAAGAAAACCTCTGACAAAAGAGACAGTGACGGGAAAAA
GGAGAAGTCGAGCAACAGTGACAGATCTACAAACCTTAAGAGGGATGATAAATGTGACAGAAAAGATGATGCTAA
GAAGGGTGACGACGGAAGTGGAGAAAAGAGTAAGGACCAAGATGATCAGAAACCTGGCCCCCTCAGAGCGATCTCG
AGCCACAAAGTCAGGAAGTCGAGGGACCGAACGGACTGTAGTAATGGATAAATCCAAAGGGGTGCCTGTGATTAG
TGTA AAAACGTCCGGGTCCAAAGAGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTC
CGTCGTGTCCTTTGATAAGGTCAAGGAGCCTCGGAAGTCAAGAGACTCAGAGTCCCATAG

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FIGURE 5213

CGAACTCCGCCCTCTTCTCCGCTAGGCCAGCTCCCTGAAGCGGCTGTTTCGAGCCACGCGCCCATCGGGTA
CCGAGGCACGCGCCGGGCGTCACGTGCGTTTCGCGGCGAGCGGAAATGACGCGAGTTGTGTGAGCCGCCAGTATG
GCCGGGCTATGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCGCGGTGCTGGGTGCTGCGGCGGCCGA
TGCTGGCCGCCCGCGGGGGCGGGTTCCCACTGCAGCAGGAGCGTGGTTGCTCCGAGGCCAGCGGACCTGCGACG
CCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGCAATTGGGGGCCAATGGCGGGGGTTTTGGGAAGCGAGCA
GCCGCGGCGGAGGCGCATTCTCGGGGGCGAGGACGCCCTCCGAGGGCGGCGGAGGAAGGAGCCGCGCGCGG
GGGGCAGCGCGGGCGCGGGGAAGGCCCGGTCTAACGGCGCTCACGCCCATGACGATCCCCGATGTGTTTCCGC
ACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCGCTTTATCAAGATTATCGAGGTTAAAAATAAGA
AGTTGGTTGAGCTGCTGAGAAGGAAAGTTCGTCTCGCCAGCCTTATGTCGGCGTCTTTCTAAAGAGAGATGACA
GCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGGACGTTTGCCAGATCCATGAGATGC
AGGACCTTGCGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAGCTGGAGGTGG
AGCCCCGAGGAGCCGAGGCGGAGAACAAGCACAGCCCCGAGGAAGTCAAAGCGGGGCAAGAAGGAGCGGAGG
ACGAGCTGAGCGCCAGGCACCCGCGGAGCTGGCGATGGAGCCCACCCCTGAGCTCCCGGCTGAGGTGCTCATGG
TGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTACGAGGAGGTGAAAGCCCTGACTGCAGAGATCGTGA
AGACCATCCGGGACATCATTGCCTTGAACCTCTCTACAGGGAGTCACTGCTGCAGATGATGCAGGCTGGCCAGC
GGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCGCGCTCACCGGGCCGAGTCCCATGAGCTGCAGG
ACGTCTTGAAGAGACCAATGTGGAGGAGAAGATCAAGCAGACCCACCGTAAQTACCTGCTGCAGGAGCAGCTAA
AGATCATCAAGAAGGAGCTGGGCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTTCGGGAGCGCCTGA
AGGAGCTCGTGGTCCCCAAGCACGTGATGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCTGCTGGACAACC
ACTCCTCGGAGTTCAATGTACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGCAAGTACAGCAACG
AGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAAGACCCTACGGCATGGAGGACGTCAAGAAACGCA
TCCTGGAGTTTATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATCCTCTGCTTCTATGGCCCCCTG
GCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCCGCGCCCTGAACCGAGAGTACTTCCGCTTCAGCGTCGGGG
GCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACCTACGTGGGCGCCATGCCCGGGAAGATCATCCAGT
GTTTGAAGAAGACCAAGACGGAGAACCCCTGATCTCATCGACGAGGTGGACAAGATCGGCCGAGGCTACCAGG
GGGACCCGCTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAGCAGAATGCCAACTTCTGGACCACTACCTGGACG
TGCCCGTGGACTTGTCCAAGGTGCTGTTTCATCTGCACGGCCAACGTACGGACACCATCCCCGAGCCGCTGCGAG
ACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGC
CCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTCATCGGACGTGCTGACGCTGCTCATCA
AGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAGCAAGTGGAGAAGGTGTTACGGAATCGGCTACA
AGATTGTACGCGCGAGGCGGAGTCCGTGGAGGTGACGCCCAGAACCTGCAGGACTTCGTGGGGAAGCCCGTGT
TCACCGTGGAGCGCATGTATGACGTGACACCGCCCGCGTGGTTCATGGGGCTGGCCTGGACCGCAATGGGAGGCT
CCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGTGACAAGGATGGCAGCCTGG
AGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCCTACACCTTCGCCAGAGCCTTCCTCA
TGCAGCACGCCCCCGCCAATGACTACCTGGTGACCTCACACATCCACCTGCTATGTGCCGAGGGCGCCACCCCCA
AGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGA
ATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTG
CGGCCAAGCGCGCAGGGGTGACGTGCATCGTCTGCCAGCCGAGAACAGAAGGACTTCTACGACCTGGCAGCCT
TCATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACTACCGGGAGATCTTCGACATCGCCTTCCCGGACGAGC
AGGCAGAGGCGCTGGCCGTGGAACGGTGACGGCCACCCGGGACTGCAGGCGGCGGATGTCAGGCCCTGTCTGGG
CCAGAAGTGAAGCTGTGGGGAGCGCGCCCGGACCTGGCAGTGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGAC
CCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGCATAGAAGCTATTTAATGATTAAAGTCATTTGCAG
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FIGURE 5214

GGAGGGCTTAAGGAAGTAAATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGT
TTCAGAAGGATAAAGGACAAAAGTCCCCTGCAGAGCAAAAAAACTTGTTCGGATTTCGGGAGAGGAGCCTCGGGGGG
AGGCTGAGGCCCCCACCATGGCACGGGTACCCCGAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCTG
CTGGCGCCTCAGCCAGCACTCCTCCGCCTCCCGCTCCTGAAGCCCAGCTTCTCCTTTTCCGCGAGAAGTGGCAG
GGAGGTACAGCTGGCGGCTCCAGTCTGAAGGCGGAGAAGATTCTGACAGAGAAGATGGAAATTACTGCCCTCCTG
TCAAGCGAGAAAAGAACATCCTCTTTAACCCAGTTCCACCCCTCACAGTCAGAGGAAAGGAGCAGTGGCTTCCGGT
TGAAGCCACCAACGCTGATCCACGGCCAAGCCCCAGCGCAGGTCTGCCAAGCCAGAAGCCCCAAGGAGCAGCAGC
GGAGCGTGCTTCGCCCCGCGAGTGTACAAAGCTCCGCAGCCAAAGGCGCTGTCCAGACTGTCCCCAGCAGTGGCA
CCAACGGGGTCAGCCTCCCAGCAGACTGCACGGGGGAGTGGCCGCAGCATCCCCTGACACTGCTGCATGGAGAA
GTCTTTCCGAAGCTGCCGATGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCT
GTGAGAAAAAAGACCCCGCCACACAGCAAGCCTTTGTATTTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAA
ATGAGAGCGTGGACGAAGCCGACATGGAGAATGCTGGACACCCAGCGCAGACACGCCAACCGCAACGAATATT
TCCTCCAGTATATCAGTTCCAGTTTAGAGAACTCAACCAATAGTGCCGACGCCTCCAGCAACAAATTTGTATTTG
GCCAGAACATGAGCGAGCGAGTTTGTAGCCCCCAAAATTAACAGAGGTGAGTTTCCAGTGCACAGGGGAAAATG
CAGCTGCCGAGTCAGGGTCTGAGTCTCGTCCAGGAGGCCACCCCTGAGAAAGGGTCCCTGGCTGAGTCGGCAG
CCGCTACACCAAGGCAACAGCGCGGAAGTGTGTTGTTGAAAAAGTGGAAAGTCATCACCGGGGAGGAGGCGGAGA
GCAATGTGTTACAGATGCAGTGCAAGCTGTTGTCTTTGACAAAGACCTCACAGTCTGGGTGGAGAGAGGCCGGG
GGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCGACTAGTGATCGCGACCCAGG
GGAGCCTGCGACTGATCTCAACACCAAGCTGTGGGCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATT
GCATCACAGCCATGGACACCGAGGACCAGGGCGTGAAGGTCTTCTGATCTCGGCCAGCTCCAAGGACACAGGT
AGTTGTATGCAGCCCTGCACACCGCATCTGGCCCTGCGCAGCCGCGTGGAGCAGGAGCAGGAGGCCAAGATGC
CCGCGCTGAGCCTGGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCTGGCTCCTTCAG
GGGCCACCGCAGCTGGTGTGGTGACGAAGGGGACGGGCAGACGACGGGAGCACAAGCGGCCGGGAGCCCGGC
TGCACACCAGGCTGCTGCTTTGTCCGTCTATCCACCGCCCCACCGCCCCACCCACCGGCAGCGTCCAGGTGC
GGGGCCGGGAACACACACCCCACTGGGCCGGCCACAGTCTGGACCCGCACGTCTGTTCAAAAGCAGACTCGGG
AACTGCCTGAATGTGGTTTGGGACACGAGACCTCATCATATTGATGAGCGAACAACAAGAACATTTCTCCCTC
CCCTCCTTTGAATTGAATGGCACATTAAGACTTGTACGGCTTCTACTGGGACTGGAGACCTCGTTCTTCAC
CCCGCTGTGCGCAGCCTCTGGGTCCAGCCAGAGCCCTGGCTTCTCGCCACCCACACCTTCCCACCTGCTG
TGGGGCCCTGCCTTTGTGGGGAGCAGCCAGCCCTCTGCCCTGCCAGGGCTCCCCAACTATAGGCCTGGGACCC
CCGCCAGCTTGGGGGGTCTCGTACGAGTGTAGACACTGGGCCCCATTGGACGTGCTGTTAACTACTATCTTCA
TTTCCCACTTCCCTCTCTGATTGGGGGTGTATATTTTACATCTTTTTTCTTTTATTTTCGAAGGCTTTGTTT
TGGTTTCTTAGGTTAAGATGCTCTCGAGCGTTGAGCAGGCACAGCTCTGTGAGGTCCCTGTCCCCACCTGTGG
TTCTGGCCTCTGAGGTTGGGGGACTACTTGTTCACCCAGGTTCTCCAGGCCAAGTCATGGGGTGATGAGG
AGTTGGGGCCCTGTCTGTCTAGGCCTGGAGAGTGCCTGTCTGGGAAAAGGTCACTGGACCTGGAAGGGTCCCCA
GGGTCCCTGACTCCCGTCTCCATCTGTACGTGGTTACCATCATCAGGCACCAGGCGCAAAGTCTTCCGCT
GTTGGCCATCCCTTCCCAGCCACAGGTGTCCCTGCCCCAGGACAGTCCAGGGCCAGGGGCTTCTGTGAGAGGC
AGAGGGGGACCTCACCAAATCTTGGTGAAGAGCCAGGGGCTGGTCCCAGAACAGGCAGTCTCACAAGCACGC
AGCACACTGGAGTGGACGCTGTGCCACCCGAGCCTGGAGCATGGCCAAGAGCCAGCTTGACACCCACCTGG
GAGGCCGAGGAGGAGGTCCCTGGGCACAGGGCCTCTTTGGGACTTCAGAGGAAATCTCCAGTCCCACTCTCGG
AGGGTTAAGAGAAGGCCTCTGCAGCTGTGCCGTCCACCTCTAGGTGCCAGAGCCCTGCCCCAGCCCCCAG
CAAGCTGAGCCCGGAAGAACCAGAGGCCCTCCGAGAGACCCAGTCACACGTCTCTGCTTTAAGCCTTAGCCA
GCTAGTGACGAGTACAACGAGATAACGCCCATGTGTTTTGGAACATTTATGTAAGATTGTCATATGAAATGTATT
TGGGAACATACATTAACTTTTAACTAAAAA

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FIGURE 5215

MADLANEEKPAIAPPVVFQKDKGQKSPAEQKNLSDSGEPRGEAEAPHHGTGHPESAGEHALEPPAPAGASAST
PPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQFFPSQSEERSSGFRLKPPTLI
HGQAPSAGLPSQKPKEQQRSVLRFAVLQAPQPKALSQTPSSGTNGVSLPADCTGAVPAASPDTAAWRSPSEAAD
EEKEPQKNESNASEEEACEKKDPATQQAFVFGQNLDRVKLINESVDEADMENAGHPSADTPTATNYFLQYISS
SLENSTNSADASSNKFFVFGQNMSESVLSPPKLNEVSSDANRENAEAESGSESSSQEATPEKGS LAESAAAYTKAT
ARKCLLEKVEVITGEEAESNVLMQCKLFVFDKTSQSWVERGRGLRLNDMASTDDGTLQSR LVMRTQGSRLRLIL
NTKLWAQM QIDKASEKSIRITAMDTEDQGVKVF LISASSKDTGQLYAALHHRILALRSRVEQE QEAKMPAPEPGA
APSNEEDDSDDDDVLAPSGATAAGAGDEGDGQTTGST

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FIGURE 5216

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCCGCGAGCCCGCTTTCCACCCGACCTCTGCCCAGGCCGAGGCCCCAGCTCAGGCTCGT
GCCCCACCAAGTTCCAGTGCCGCACCAAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCCCACGCCCC
CTGGCCTCCCCTGCCCCCTGCACCGGCGTCACTGACTGCTCTGGGGGAAGTACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGAAGCCTGGTCAACGCCACCCTCCTCCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAAGTGAAGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 5217

MSGGWMAQVGAWRTGALGLALLLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRC
RDLCSDGSDEEEECRIEPTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHEDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLVTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 5218A

CCTCGCTCAAGGAGCACCCCCGGGGCACCTCCTGTCCGATGGCAGCCCGGCCCTGTCCAGGAATGTCGGTATGA
CGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCCCGGTGGCCCTGGGACGCAACTCGGACCAATCACAG
GAGAGATGGATGAAGCCGATTCTGCGTTTTTAAATTTAAGCAGACAGCTGATGACTCTCTGTCCCTTACATCTC
CAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACG
AGTTTGAAGCTGAGTCTGGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAAAAGAGGGAGGTGGTGA
GACAAGATGTCCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
ACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTTCAGCAGCAAGGCCATTGGCCGCTCTTCCCATGCGCTGACGACC
TGCTGGAGACGCACAGCCACTTCCTCGCTCGGCTCAAGGAGCGCGCCAGGAGTCCCTGGAGGAGGGCAGTGACC
GGAATTATGTCATCCAGAAAATCGGCGACCTCCTGGTTCAGCAGTTTTCAGGTGAAAATGGGGAGAGAATGAAAG
AAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTGTTAGTCAATTACAAGTTGCTGCTTCAGCAAAACAAGA
AATTTCAAAACTTGATCAAGAAAATTGGCAACTTCTCCATCGTGCGGCGGCTTGGCGTGCAGGAGTGCAATTCTCC
TGGTTACACAACGCATAACCAATAACCCAGTGCTGGTGGAGCGCATATCCAGAACACGGAAGCTGGCACTGAGG
ACTATGAAGACCTGACCCAGGCCTTGAACCTCATCAAGATATCATCTCACAAGTGGACGCCAAGGTGAGTGAGT
GTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAACTCAAGAACGGGC
TCACCTTCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAGACCACATCAG
GGCGCTTGAAAGATATCCTGGCTATCCTGCTGACCGACGTACTTTTGCTGCTACAAGAAAAGATCAGAAATACG
TCTTTGCTTCTGTGGACTCAAAGCCACCCGTATCTCGTTACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGG
AGAAAGCGATGTTTTCTGATCAGCGCCTCCTTGCAAGGGCCGGAGATGTATGAAATCTACACGAGCTCCAAAGAGG
ACAGGAACGCCTGGATGGCCACATCCAAAGGGCTGTGGAGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCC
TGCCCCGAAGAGGAAAGGAAGGTGGTTCGAGGCGCCGCGCCACGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGA
AAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCG
AAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGGACCCATCCGAGACCTGCAGGGGGAGCTAATTCTCA
AGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGGCCAGGCGG
AAGACGGAGGCAGCTCCACAGGCCCGCCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAACAGCCCCA
CCAAGAATGGCAGTTTTCAAGAAGAAAGTCAAGCAGCACTGACCCAGGCCCGGAGACTGGCGAGGCCCCCAACA
GCCCCGACTTGAAGCTCAGTGACAGTGACATTCTGGGAGCTCTGAGGAATCGCCGAGGTGGTGGAGGCGCCAG
GCACGGAATCCGATCCCGTCTGCCCACCGTCTGGAGTCCGAGCTTGTCCAGCGGATCCAGACACTGTCCCAGC
TGCTCCTGAACCTTCAGGCGTAATCGCCACCAGGACAGTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGC
GGGAGAAGCAGTTCGGCTGCAGTCGACCGTGGGAACCTGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGA
AGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGAGCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCG
AGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGGGGCGCGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCAGC
TACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGCGCCAGCGCCAGGCCTACCAGCAGACCTGGAGCGGC
TGCGCGAGGCCCCAGCGTCCGTGGAGCGCAGCGGGAGCGCTGGAGCTGCTGCGCCGCTCAAGAAGCAGAACA
CCGCGCCAGGCGCGCTGCCGCCCCGACACACTGGCCGAGGCCAGCCCCAAGCCACCCTCCCAGCTTCAACGGGG
AAGGGCTGGAGGGCCCTCGTGTGAGCATGCTGCCATCCGGCGTGGGGCCAGAGTACGCAGAGCGCCCCGAGGTGG
CTCGCGGGGACAGCGCCCCACCGAGAACCAGGCTGGCCAAGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCA
ACCAGTTCAGAGGCAGGCGGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCCTCCACCAAGGGTGGCAAGG
ACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCTTCGACCTGAAGCAGCAGCTGCTGC
TCAACAAGCTCATGGGGAAAGATGAGAGACCTCACGGAACCGCCGCTCGCTGAGCCCTATCTGCCCGGCAGAC
ACAGTCTCGCCCCCACCAGACCTGGCTTCCCCGCCCCGAGCCACCGCCAGCTGACAGCCCCCTCCGAGGGCT
TCTCTCTCAAGGCCGGGGGCACAGCCCTCTGCCCCGGGGCCCCAGCTCCCTCGCCACTGCCGGCCACACCACTCA
GCGCCAAGGAGGACGCCAGCAAAGAAGACGTATCTTCTTAAAAGGGCCGTGACTCAAGGAAAGTTTTTAATG
GAAAGTTGAGCCAGAATAAACCAGGGAGCTGTCTGAAATCATAGCACCCCATCCGGGTGGCGGGGAGATCAACT
CCGAGCTGTTTTCCGAGGCAGTGAGGAACGGTGCCGGCTTCGCACGGAGCTGAGGACAGGACAGACCTTGCTTT
GAGAAGGAGCTGCCGGCGGGGCCACGCTCCACAGCCGCGCGGACAGTGGAGCCAAGGGTTAGGGCACAGGA
GGGGCCAGGTGGCGTGGCAGCATCTGTCCCAGAATCAGGAGAATCCACTTCCCAAACAGAGCCCCACGCAGG
TTCACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCACGGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCC
ACTGAGGGAACATCAGTGGCCCTCAGTCAGTTCTGTGGTTTGAAGCCCATCGTGAAAGGGGCTGACCTTTG

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FIGURE 5218B

CCCCCTTTTACTTGGCATTGGTTTTTGAAACCAGCTGTTTCCCAAACCTCTGCTTCCCAAGGGCAACCGTTGCTGTT
CACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTTCAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCC
TCAGCCCCCGGAAATGAGCTCCCAGGGCTGGCGTCCCACCTTCCAGGTGGGGGCTGGCACATCACAGACTGTCTG
AGAGCGCCATGTCCCAGGGCATGCAGAGGATGCACCTAGAGACGTTGCAGCAAGTGGACAAGTGGCCGCTGTGCCG
GGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCCGTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCA
GCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCCATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATG
TCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGACTGGGTCTGGCTGATCGTCCTTGTTCCCAAGTGGGGT
ACATGTGAGCCCCTGCCAGGGCCAAGTCCTTCTCCCGAACCCAGGGTCCTGGGAACTGCAGATCCCGGGGGGATT
CAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTGACGCTGAATACAGTGAACAGGGACATTCCCGCCACT
CGGGGACAGATGGGCACAAGGGAGGGGAACTCCATCAGGAAGTGCTCCCTGGGCAGAGGCGCCCACTGGGTGC
TGTGGGCTCAGGAGGGGCGGGGCAGGAGCTGGTGCCAACCGGGAACAGAGCCCCACAGCCATAACAGCCATTG
GTGACAAGGTCCTGAGAACACAGTGGCCAGGTGTCCCCAGGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCCCA
GCCCCGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCGTCAGATCCCATGTGTGCCATGTTTATCATCAGTGT
TTGTATTTTGTACTGAGTATCGGAGCACTTTACAGAAGCTGACTGTACATTCTGTTCTGTTGTGAAGAGAACA
TTCCCAGACCCTGGCACCCCTCCTGAGCCGCGTGTGCCGGTCCAGCCCTCCGAGATGCCACAATTCCTTGATGG
GGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGGGAACCCCGCTCCCGCCATGTGGCAGAGGGGTCTC
AGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTTCCTCGCCAGTGGCCCTCGGCCACTCCTGGGTTGGA
GCCCGATTTTATTTGTAAAGTTGACAGTCGAGCAAATGTTCTATTTTCGTGGGATCTGCACACGTCCTTGTGTCAG
TTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTACAATGATTACAACATTCCTCACTGCGGGATATTTCT
GACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAACGTGTCCGAGATG

5664/6881
FIGURE 5219

TCTCCTGTACCTGGGCATCCAGAAAAATGGTGGTGTATGGCGGACTCTCGCGGCCCGAGCGGCCGGACCTTGTCT
TCGAGGAAGAGGACCTCCCTATGAGGAGGAAATCATGCGGAACCAATTCTCTGTCAAATGCTGGCTTCGCTACA
TCGAGTTCAAACAGGGCGCCCGAAGCCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCA
GCTACAAACTCTGGTACCGATACCTGAAGGCGCGTCGCGGCACAGGTGAAGCATCGCTGTGTGACCAGCCCTGCCT
ATGAAGATGTCAACAACCTGTCATGAGAGGGCCTTTGTGTTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACT
GCCAGTTCCTCATGGACCAGGGGCGCGTCACACACACCCGCCGCACCTTCGACCGTGCCCTCCGGGCACTGCCCCA
TCACGCAGCACTCTCGAATTTGGCCCTGTATCTGCGCTTCCTGCGCTCACACCCACTGCCTGAGACAGCTGTGC
GAGGCTATCGGCGCTTCCTCAAGCTGAGTCTCTGAGAGTGCAGAGGAGTACATTGAGTACCTCAAGTCAAGTGACC
GGCTGGATGAGGCCGCCCGCGCCTGGCCACCGTGGTGAACGACGAGCGTTTCGTGTCTAAGGCCGGCAAGTCCA
ACTACCAGCTGTGGCACGAGCTGTGCGACCTCATCTCCAGAAATCCGGACAAGGTACAGTCCCTCAATGTGGACG
CCATCATCCGCGGGGGCCTACCCGCTTCACCGACCAGCTGGGCAAGCTCTGGTGTCTCTCGCCGACTACTACA
TCCGCAGCGGCCATTTTCGAGAAGGCTCGGGACGTGTACGAGGAGGCCATCCGGACAGTGATGACCGTGCGGGACT
TCACACAGCTGTTTTGACAGCTACGCCCAGTTCGAGGAGAGCATGATCGCTGCAAAGATGGAGACCGCCTCGGAGC
TGGGGCGCGAGGAGGAGGATGATGTGGACCTGGAGCTGCGCCTGGCCCGCTTCGAGCAGCTCATCAGCCGGCGGC
CCCTGCTCCTCAACAGCGTCTTGCTGCGCCAAACCCACACCAGTGCACGAGTGGCACAAGCGTGTGCGCCCTGC
ACCAGGGCCGCCCCGGGAGATCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAG
GCAAGCCCCACACTCTGTGGTGGCGTTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCCGTGTCA
TCTTGGAGAAGGCCACCAAGTGAACTTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTAGTGCGGAGAGC
TGGAGCTCCGACACGAGAACTACGATGAGGCCTTGGCGCTGCTGCGAAAGGCCACGGCGCTGCCTGCCCCCGGG
CCGAGTACTTTGATGGTTCAGAGCCCGTGCAGAACCGCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTCGCCG
ACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCCTGGACCTGCGTATCGCAA
CACCCAGATCGTCATCAACTATGCCATGTTCTGGAGGAGCACAACTACTTCGAGGAGAGCTTCAAGGCGTACG
AGCGCGGCATCTCGCTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTACCTGACCAAATTCATTGCC
GCTATGGGGGCCGCAAGCTGGAGCGGGCACGGGACCTGTTGAACAGGCTCTGGACGGCTGCCCCCAAATATG
CCAAGACCTTGATCTGTGTACGCACAGCTGGAGGAGGAGTGGGGCCTGGCCCGCATGCCATGGCCGTGTACG
AGCGTGCCACCAGGGCCGTGGAGCCCGCCAGCAGTATGACATGTTCAACATCTACATCAAGCGGGCGGCCGAGA
TCTATGGGGTCACCACACCCGCGGCATCTACCAGAAGGCCATTGAGGTGCTGTGCGACGAGCACGCGCGTGAGA
TGTGCTGCGGTTTGCAGACATGGAGTGCAAGCTCGGGGAGATTGACCGCGCCCGGGCCATCTACAGCTTCTGCT
CCCAGATCTGTGACCCCGGACGACCGGCGCTTCTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATG
AGGACACCATCAAGGAAATGCTGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGCAGGTCAACTTCATGG
CCTGCGAGATGCTCAAGGTCTCGGGCAGTGCCACGGGCACCGTGTCTGACCTGGCCCTGGGCAGAGTGGCATGG
ACGACATGAAGCTGCTGGAACAGCGGGCAGAGCAGCTGGCGGCTGAGGCGGAGCGTGACAGCCCTTGCGCGCCC
AGAGCAAGATCCTGTTCTGTGAGGAGTGACGCTCCCGGGAGGAGCTGGCAGAGCTGGCACAGCAGGTCAACCCCG
AGGAGATCCAGCTGGGCGAGGACGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTCGGCTGGAGCAGC
AGAGCGTGCCAGCCGAGTGTGTTGGGAGCCTGAAGGAAGACTGACCCCGTCCCTCCCCATCCCCCTCCCCACCC
CCTCCCAATACAGCTACGTTTGTACATC

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FIGURE 5220

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRXIEFKQGAPKPRLNQLYERALKLLPCSYKLWYRYL
KARRAQVKHRCVTDPAYEDVNNCHERAFVFMHKMPRLWLDYCQFLMDQGRVTHTRRTFDRLRALPITQHSRIWP
LYLRFLRSHPLPETAVRGYRRFLKLSPEAEYIEYLKSSDRLDEAAQRLATVVNDERFVSKAGKSNYQLWHELC
DLISQNPDKVQSLNVDAIIRGGLTRFTDQLGKLWCSLADYYIRSGHFEKARDVYEEAIRTVMTVRDFTQVFD SYA
QFEESMIAAKMETASELGREEEDDVLRLARFEQLISRRPLLLNSVLLRQNP HHVHEWHKRVALHQGRPREII
NTYTEAVQTVDPFKATGKPHTLWVAFK FYEDNGQLDDARVILEKATKVNFKQVDDLASVWCQCCELELRHENYD
EALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVSMLADLEESLGT FQSTKAVYDRILDRLIATPQIVINYA
MFLEEHKYFEESFKAYERGISLFKWP NVSDI WSTYLT KFIARYGGRKLERARDLFEQALDGCPPKYAKTLYLLYA
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIYIKRAAEIYGVTHTRGIYQKAIEVLSDEHAREMCLRFADME
CKLGEIDRARAIYSFCSQICDPRTTGAFWQ TWKDFEVRHGNEDTIKEMLRIRRSVQATYNTQVNF MASQMLKVSG
SATGTVSD LAPGQSGMDDMKLLEQRAEQLAAEAERDQPLRAQSKILFVRSDASREELAE LAQQVNPEEIQLGED E
DEDEMDLEPNEVRLEQQSVPAAVFGSLKED

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FIGURE 5221

ATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATT
GAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTCAAGGGCGGGGCCCTGTCC
CTCTACACGGCCCTCACCTGCCCCACCCGCTGGCTGGTATCGTAGCATCGAGCTGCTGGCTGCCTCTGCACCGG
GCCTTCCCCCAGGCAGCTAAAGGCAGTGGCAAGGGCCTGACCATCCTCCAGTGCCATGGGGAGCTGGACCCCATG
GTGCGCGTACGGTTTGGGACCCCTGACGGCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACTCGGGTGTC
ATGCACAGCTGCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGGAAGTTGCTGCCTTCTGTCTAACT
AGTCGCTGGCCCCAGTGCGCCTCCAGGCCCCCAGCCTCTGGGAGAGGGGAGAGAGCTCCTCCTGCCAAGAACACC
AGCCCAGGCCCTGTTTCTAGCCCAGGGCGTGCCAGCGGGACCACCAGACACTTCCGGGCCTACCCCAGGAACCCC
GTCCCCGGCCATGGCCCGTCCGTCCCGGGCTGCGGGACCGAGGTGGGGCTCCCCGGCCAGCTCCGAGTGCCCG
GCCACGGCCCCGACAGAGGGCCCCCGAAATCAGTGAGCAGCGCCTCGGAGCACAGTACCACCGAGCCAAGCCC
GGCTGCCAGGAGGCGGCCAGCGCCGCCGTTCTGGGCCCTCAGCCCGCGGAACACCCAGGGCTCCTGCGCATCC
CTCGCAGCCCCAAGCCGAAAGGACTGCAGGCTCTGCGACCCCTCAGGTCACACCCCCAAGGAAGGACGCAGCCCC
AGCACTAGGACCGCTTTCTCCTCTCCTTTGGCCACACCTCTCCATCGGGTACCAAGGCAAGACCCGTACCGCC
TCCCGACAATGCAGCCACTCCCCTGCCAGCCACGCTCCCTCCCTCTCCACCGCCACGCCCCCTCGCAAGTTCCA
CCCACACAGCTGATTATGTCCTTTCCAGAAGCAGGCGTCTCTTCCCTGGCCACAGCCGCTTTTGTGGCTTCAGTC
TCTCCATCAGTTTTCATCCCCTCTGCAGAGACTCTCCTCTTCTGGCCACATTGCCTCTGCAGGCCTCTCCCTCTCC
TTTGACCACAGTCTCTCTGCAGGATCCTCCTCTAGTTTCTCCCTCTCTTTTGGCCTCACCGCCTCTGCAGGCTCC
GCCCCACCCACAGGCCCCACCTTCTATGACTACGCCCCCTATGCAGGCCCCGCCCTCTCTCCAGACCATTCCCCC
AATACAGGTCCCACATTCTCTGACCTACCGTCTCTGCAGGCACCTCCCTCTCCTCTGGCTTTGTCTCTCTGCA
GGCCACAACCTTTTGGGCTCACCCACTCTGCAGGCCACACATTCTTTCTGACAATGTCCCCTAG

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FIGURE 5222

GTCGCCCTCTGTCCCTGCTCTACCTCTCTGTCCCTGTCTGGCTCTCCCGTCACCCCTCCCTGCCTCTGTCTCTCT
TCTGGCCTGAGCCTGGGCCCAGCCACCTCCTGACCGGAGGGAATCGGTGACGGAGCGGGGCCAAGGGAGGGGTCC
GGAGGGAGTCAGGGATGGAGGGCAGAGGGAGTGGATGTGGGGGTTTGGAGACGTGTGACAAGCTCCAGCAGGGGT
GGGGGCCGGGCTGAGGGTGGGGGTGCGAGGTGGTCACTCCCATCGTGCCCTGGCCGTCCCTCCACTCACCACA
CCTGGCCCAGTCCACGTTGAGGTCCAGGACTGGGAAGGACCGGGTGAGTGCACCGGGGACCCAGGCCAGGTGCCC
CCCGGAGCCTGCTGGGGTGGCCAGAGCAGGAGGGGGTGIGTTTCCTTTTTGTGGGTGTTGCATGCAAATCAAGTG
GACAAGAAAAATAACAAACAAAAACAAGAAAAAAAAAACACAAAACCCCGTAAATCACAAAGAAAATCCAA
CACCAAAGGCGCAGAAGCCGGCTGGCCGTGGTGGGGGCAGCGTAGGCGTAGCATCCCTCTCCTCTCACTTAGCCT
GTTGACTCTTGTTATTATCATGATATTCACAAAACGCCGCATGTTAAAAAGTCATAGATGTCATCTTCTCTCTG
CCCCCAGGGAGGAAAGCCA¹CCTTCTCTTGCCCTTGCCCTTTGTCAGGGGCCAGGGGTCTGCCGGGTGGGGT
GCCAACAGGCCTGGCCCTTTCCTCCCCTGCATCCAGCCATGGGGGCCTCTGCGATTGCCGGAAGGTTGCATGGCT
GGTCCCAGGGCCAGCACAGGCCCGAGGCCGGGCTGCCTGGTTTTATTTTATTTAACTTTATTTTCTGTTTTATG
AGTGTGTGTCCGCCCCACCCCA²CCCTTCAGTGTTAAGTGGGGAGCCCTGGGGGAGTCTCTCCTGCCTCCCAGC
CTCTCCCAAGACCTCCCCCTCGTCACCAGCCATCCCTCTGGACCAGGCAGAGGGCGGACCGGGTGGGCAGGGC
CTGAGGGTGGCTCGGGCCAGCCACCAATGGACCCCTCCTCAGGCCGCCAGTGTGCCCTGCCCTTTTTA
AAACAAAATGCCCTCGTTTGTAAACCCTTAGACGCTTGAGAATAAACCCCTTCCTTTTCTTCC

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FIGURE 5223

CGCCGCGAGAAGGTCACACGATTCTCCAACATGGCGGCGGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGG
AGATGCCTCGGCAGTGGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTCGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGAAACAGAAAAGGCTTTCTGTCCGGCTTGCTAGAT
AATGTCAAACAAGAATTAGCCAAAAACAAGAAATGAAAGAAAGTATAAAAAAATTCCGTGACGAGGCCAGAAGG
CTAGAAGAATCAGACGTGCTCCAGGAGGCCAGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGC
GAGGTGCTACGGAAGAAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCCGAAAAATCAAGGAGGGCGTGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCCGAGTCGGTATCCAAA
GGCGGGGAGAAGCTGGGCAGGACAGCGGCCTTCAGAGCCCTCTCCCAGGGGGTGAGTCCGTGAAGAAGGAAATT
GACGACAGCGTCTTGGGACAGACCGGGCCCTACCGGAGGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGCGGGA
GATAAGTTCAAGGAGGAGAAAGTGTGTTGAGCCAAACGAGGAGGCCCTGGGGGTGCTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGGAAGGACTTCAAGGAGAACAACGTGGTGTGTTAACCGGTTCTTCGAGATGAAGATGAAGTAT
GACGAAAGCGACAACGCGTTTATCCGGGCATCCCGGGCCCTTACGGACAAGGTCACCGACTTGCTGGGGGGCCTG
TTCTCCAAGACAGAGATGTCCGAGGTGCTCACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTT
CTGAAACAGTGCGAGAACGACATCATCCCAATGTCTGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCCCACCCATCCAGCAGGCCAAGGCACTGGGTCTCCAGTTC
CATTCTCGCATCCTAGACATTGACAACGTGACCTGGCCATGGGCAAGATGATGGAGCAGGGGCCGGTGCTGATC
ATCACCTTCCAGGCACAGCTGGTGATGGTGGTCAGGAACCCCAAAGGCGAGGTGGTGGAGGGTGACCCGGACAAG
GTGCTGCGGATGCTGTACGTGTGGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGAGTGTGGTGCCGGAGCCAGGTAGCCCCGGCCTGGGTG
ATCAGGCACAGAGGCACCGCAACACCACCTGCGGCAACT

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FIGURE 5224

MAAAALRSGWCRCPRRCLGSGIQFLSSHNLPHGSTYQMRP GGELPLSKSYSSGNRKGFLSGLLDNVKQELAKNK
EMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTSEVLRKKLGELTGTVKESLHEVSKSDLGRKIKEGVE
EAAKTAKQSAESVSKGGEKLGRTAAFRALSQGVESVKKEIDDSVLGQTGPYRRPQRLRKRTFAGDKFKEEKVFE
PNEEALGVVLHKDSKWYQQWKDFKENNVVFNRRFFEMKMKYDESDNAFIRASRALTDKVTDLLGGGLFSKTEMSEVL
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCEATYSQLAHP IQQAKALGLQFHSRILDIDNV
DLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRMLYVWALCRDQDELNPYAAWRLLDISASSTEQ
IL

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FIGURE 5225

CGCCGGCTCCGCCCCCGTCGGGTGTTTTGTGGTGGGGCTGCGGAGTCGCCGATCCCGCCGGAAGCGCCAGGACAAT
GGGGACCCGAGACGACGAGTACGACTACCTATTCAAAGTGGTGCTCATCGGGGACTCAGGCGTGGGCAAGAGCAA
CCTGCTGTGCGGCTTACCCGCAACGAGTTCAACCTGGAGAGCAAGAGCACCATCGGCGTGGAGTTGCCACCCG
CAGCATCCAGGTGGACGGCAAGACCATCAAGGCGCAGATCTGGGACACCGCTGGCCAGGAGCGTACCGCGCCAT
CACCTCCGCTACTACCGTGGTGAGTGGGCGCCCTGCTGGTGTACGACATCGCCAAGCACCTGACCTATGAGAA
CGTGGAGCGCTGGCTGAAGGAGCTGCGGGACCACGCAGACAGCAACATCGTCATCATGCTGGTGGGCAACAAGAG
TGACCTGCCACCTGCGGGCTGTGCCCCTGACGAGGCCCCGCGCCTTCGCAGAAAAGAACAACCTTGTCTTCAT
CGAGACCTCAGCCTTGGATTCCACTAACGTAGAGGAAGCATTCAAGAACATCCTCACAGAGATCTACCGCATCGT
GTCACAGAAACAGATCGCAGACCGCGCTGCCCACGACGAGTCCCCGGGGAACAACGTGGTGGACATCAGCGTGCC
GCCCACCACGGACGGACAGAAGCCCCAACAGCTGCAGTGCTGCCAGAACCTGTGACCCCTGCGCCTCCACCCAGC
GTGCGTGACGCTCTCCGCCCCGCCCCGCCACGGTATCCTCTGGCCCCCTCCCTGCTGTCCCTCTGTGGCCGGCTC
GTTCCAGCCCTCCCAGTGAGCTCTGCACGGCCGGGCCGGGGCCAGGAAGGACAGGAGCCAGTGCTACCCCGTCC
TGCCCCGGGAAAAGCTAGAAGCCCCGGTTTGTCTGCACCCATGAAACTCGGGTCCCCACAGCGTCTTGGCGGGGTG
GGGAGGGCGGCAGGATGGACGGGGCTGGCCAGAGGCGAGGAGGACGGGCGGACGGCGCCGCTTCTCCCTTTTC
CTTGGCCGACTCTAGGGAGCGATTGCCTCCCTCCCTCTGTGACCGGGTGGCCCAGCCAGCCCGTCTGTCCCCACCC
AGAACCCTGCTCTGGGCCAAAGCCCCGAAGAACCAGGCAGCGGGGGCCGGGGCAGGCGGACCCCCCGGGCTCTCAG
CGCCCACCCGCTCTCCGCACACAGCAGCTCGCACAGGCCCTCCACCTCTGCCTGTTGATTGATGCAGGGAGAAG
CCCGTCCCCCCTCTCCCTCTCCCTCCCTCTCTGACGCAACGCGCCCTCTCGGCCCTCCCTGTCCCCCTC
CTCTGTCTCGTCTCCCCATCTGGTCTGGAACCTGTTGCAAGTGAAGCAATATCTCCGTGTTTTGTATATACAAC
CGCTCTTGTAGCCTTTGGTTTTTGTAAATGTAGAGAAACACAGATTCTTTATACACTTTGTAAGATTTACGCCAA
ACCCAGCTCTCGATCTCTTCTCTCCCTGTGGCCCCCTGCGCTGTTGCCCGTCCCCGTCACCCGCCCCGTTACT
GAAATGTATAATCTGACTTCTGTACAGAAACCTGC

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FIGURE 5226

CGCGCCGGGAACAGCCAGTCGGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGCGCGGGGGCGTGGCCCGGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGCGGGGCGCAGGTGTT
ACTGGTTGCGTCGGGTACGTCGGGCGCGCAGGCGCAGCGCGGTGCAGCCCGTTCGCTCACACAAAGCCCAGACGC
GGAGAAAATGGCGGCAGGGGTGCAAGCGCGCGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGG
CGCGCCCGCGGTGCCGAGCGGCAACGGGGCTCCGGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAA
GAGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAACATAAAGATACAGAGC
CTTCATTACAAACATACCTTTTGATGTGAAATGGCAGTCACCTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGT
AACATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGCTCTATAGTGTGTTGAATTCAAGATGGAAGA
GAGCATGAAAAAAGCTGCGGAAGTCCTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCC
TGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGCTGGAAGACTTGAAGCACAGTATTTGTAGCAAATCTGGA
TTATAAAGTTGGCTGGAAGAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGGA AAAAGTCGTGGAATAGGCACTGTTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATC
TATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAGAGGGCCTTACCAAAAGGAGA
TTTCTTCCCTCCTGAGCGTCCACAACAACCTCCCCATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGG
GCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGA
AGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGA AACATGGGTCTG
ATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGC
AAAGCAGGGAGGAGGTGGAGTGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCTGGCATTGACCGCTCGG
GGGTGCCGCGCATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCAT
GGGCCTGGTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATGGCTCTGGCGTGGAGCGCATGGG
TGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGG
CTCTGGCGTGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCTGAGCATGGAGCGCATGGTGGCCGAGGTAT
GGGAGCTGGCCTGGAGCGCATGGGCCCGTGTATGGATCGCATGGCCACCGGCCTGGAGCGCATGGGCGCCAACAA
TCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAA
CAGCCTCGAGCGCATGGGCCCGCCATGGGCCCGGCCCTGGGCGCTGGCATTGAGCGCATGGGCCTGGCCATGGG
TGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGAGGTTT
CTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATT
CGATTTACATGGAAGATGCTAAAGGACAAATCAACGAGTGCGGCCACGTGCTGTACGCCGACATCAAGATGGA
GAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGTTCGAGTCCGAGAGGTGGCCGAGAGAGCCTGCCGGATGAT
GAATGGCATGAAGCTGAGTGGCCGAGAGATTGACGTTTCAATTGATAGAAACGCTTAAGCAGTTGCCTTTTTTAA
ACATCGATACGAGACCTCTGAATTTGTATTTTTCTTGTTAACCATTTTAATTTGTTGGCTGGATGTATAAAGAT
GTTTAAAAAATTCAGTTGCTTTTTGGGGTAATTTGAATTACTTTTTAATGACTGGGGTTCCATTTGACTGTTTG
CATTGAGATTGCAATGTGCGCAATTTTTTTTGTAGTTGTGGCATCTTGTTGACATCGAATATGACTTTGATAATA
AATACCGGTTCTTG

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FIGURE 5227A

AGTGAAGCGGAAGCCATTACTCTCTGGAGTCGATTGCCCGAGACACATGGGCCAAGGAGGGGTCAGCGGCGAAT
TCTTTTCGGCCTGTTGGGGACCCCTCGTGTCCCCACGCCAGACTGGACCTCCCGTATGAACTTCTCTCGCATCGG
CGGCGGCTTCCGTCACCTCCGCTCCCCCGATCCTATTCCAGTCGTATGCCAGCTTGGAGAGTCACGTGAGAGCA
AGAGAGTAGCTTTCTGGTTGCTCGGTGCCCTGCTCAGGCAAACCTGACTGCCATTCTCTGAGGATGGCAGCTCTG
TCCCCACATTTGCCACGTCCACCCAGGATTCCACCTGTCTCCAGGACTCAGAATTTCTGTTTCTCAAAAGAC
CATTCTGTCCCCAGAATTTGGACCTGTTCTGTGTGTCAGTGGTCTGGAGCCTCACACCCAGTGTGGTTCCAG
GAATCGGTGACTTTCCAAGATGTCTGTGGACTTTACCGAGAAGGAGTGGCCCTTGCTGGATTCTCTCAGAGA
AAACTGTACAAAGATGTAATGCTGGAGAACTACAGCAACCTCACTTCACTGGGGTATCAGGTGGGCAAACCCAGC
CTCATCTCACACTTGGAGCAGGAGGAGGAGCCGAGGACAGAGGAGAGGGGCGCTCACCAGGGCGCTGTGTCAGAT
TGGGAGACTCCATCTAAAACCAAGTGGTCACTTCTTATGGAAGATATTTTGGGAAGGAAACGCCAGTGGTGTG
ACGATGGAAGAGCCGGTCTTGGAGAGAAGTCCACTGAATACGCTCACTTGTTCGAAGTCTTTGGCATGGACCTT
CATCTCACTCAGCCAATGGGAAGGCACGCTGGCAAGAGGCCCTATCACCGCCGCGACTATGGGGTAGCGTTCAAG
GGCAGGCCGCGACCTCACTCAGCACATGAGCATGTACGACGGGAGAAAAATGCATGAATGTCATCAGTGCCAAAAA
GCCTTACCACGAGCGCGTCCCTCACACGGCACAGGAGAATCCACACGGGGGAGAAGCCTTACGAGTGCAGCGAC
TGCGGGAAAGCCTTCAACGACCCTTACGCCCTTAGGAGCCACGCAAGAACTCACCTCAAAGAGAAGCCCTTTGAC
TGCAGTCAGTGTGAAATGCATTCCGGACCCTCTCGGCCCTGAAAAATCCACATGCGAGTTCACACTGCGGAGAGG
CCTTACAAGTGTGATCAGTGCGGGAAGGCTTACGGCCGGAGCTGCCACCTCATCGCACACAAGAGAACGCACACC
GGAGAGAGGCCCTACGAGTGTACGACTGTGGGAAAGCTTTCCAGCACCCCTCCACCTCAAAGAGCAGGTGAGG
AATCACACGGGGGAGAAGCCCTACGCGTGCACGCAGTGCGGCAAAGCCTTCCGCTGGAAGTCCAACTTAATTTG
CACAAGAAGAACCATGAGGATTACATCGTCAAGAAACCCGTGGAATGTGCGCAGTGCGGGAAGACCTTCCGAAAC
CGGAGGAAACACATGAGGATTACATCGTCAAGAAACCCGTGGAATGTGCGCAGTGCGGGAAGACCTTCCGAAAC
CAGTCCATCCTTAAGACTCACATGAATCTCACACTGGAGAGAAACCATACGGGTGCGATCTCTGCGGGAAAGCT
TTCAGCGCGAGTTCAAACCTCACCACACACAGGAAGATACACACGCAAGAGAGACGCTACGAATGCGCCGCTGC
GGGAAAGTCTTCGGTGACTATTTATCCCGCGGAGGCACATGAGCGTTACCTTGTAAAGAAACGAGTTGAGTGT
AGGCAGTGTGGCAAGGCCTTCAGGAACAGTCAACGCTGAAGACGCACATGCGAAGCCACACGGGGGAGAAACCG
TACGAATGCGATCACTGTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGGG
GAGAAGCCCTACGAATGCCTTGTCTGCGGGAAAGCCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAAC
CACCAGGGGAGAGAAGCTCTTTGTGTATCCGTGTGGAAGGCTCCAGTGAAGCGCGCTGCTTTAGAGACACAGG
ATGATTCAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAA
GAATCCACGGAACCTGGGAGAAGTCCAGTTCCTGTAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGT
TTGTGAGAACTCACGCCGGGGGTGAAAATGTACGTCTGTAGCATGGAGAAGCCTTCAGGGTACATTACGCTCTTA
ACAAACACAGGAGGACTTAATGGCAGCTTGGCATTAAATGTCAAAATCCAAGCCGTGGCATTAAATGTCAAAATG
ACTTCAGACCACTTCTAGCCTTCTGGGCCCATGAGTAATAATGAGCACACTAGGGAGCATCTCTGTAAACACAGT
GGCTGGGGAAACCTTCCTAGTCTCACTTGATTCTCATGACGGAATCACACTAAAGAGAGAAATCAGTGAAGT
AAGGAACGTGGAAGGTCATGAATGGGCCGCAAACCACGCCAGCTGCTTGTCTTTGTATGGCTTGCCAGCTAACA
ATAGTGGTTCCATCTTTAAGGAAGAAGATGTTTGTATGGAGAAAATTTGTGGCCAATGAAGTCTGAAATACTTCC
TGTCATCTGCCCCCTTTCCAGAAAACCTTGGCCGACCCTTGGTCTACAGCACGGGTTCTCAGTCGGGCGACGATT
GGCTGTCTAGGCGTCATTTGGCAATGTCTAGAGACATTTTGGTAGTTAGAATGGGGGGAAGATACTCCTGACTT
GTAATAAGAAGACATCAGAGATGCTGCTAAGTCGGCTCCAGCACACAGGAGCCCCCACAACGAAGAGTTAGTGC
CCCCAAACGTCACTGTTGCTGAGGTTGAAAATAATCATGCGATCATTCCTCAATTACTGCCTGCAGCAATTCCTC
CATTTTTATGAATCTTGTGAGCACTTACGCTAGGAGAAATTTCTTTTACAAAACCTTTTAAATACAATTAGTGCT
GATAATTCCTATGTGGAATGATTCCAGCCATGGTCCCCCACTTGAGCATGTGAATATCTCACGGAGAGAAGC
CCCAGCGAGATTTTCCGGTGAATACGGGATTGCACCTACTCTTTCATCACGGAAACAGACCCCCGAGAGAAGCC
CCAACGAGATTTTCCGGTGAATACGGGACTGCACGTACTCTCTCATGAAAAACAGAGCCCCGTTTCAATAATT
TTCATCTTTATTTTTAAGGTTATACTCCTTAAATAACCTTAAGCCTCATCAAGAAAGGTTTGTATTATAGTATT
TTTACTATAGCTTCATCCTTGATAACGTCTAATTTCTTCTGGACAACCTCCTTGACCAATGGCATATTGAGAT
CTATGTGACATGAGGATATTTCTCAGTACCCTTTGTTACTGGTACCTGATGCACACGGATTGCGACAGAGCAT
GATGCCCTCATCAAGTGGTAATATGTTTGCAGCCTGCTGTCCAGCCAAGAGTGACAGATACTTCTAGTGACTTCC

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FIGURE 5227B

CCGGTATCCACTCTCATCTTCTTCCAATATCAAGAGAATCCAGGTTCTGTCAGATTAGTAAGGTGTGCTAATCTA
AATTTTAAAAAATCTCTTACAGGTTTTCTTGCAGCTGGTACCATCCATGTCTCACAGCCCTGGCCACTGACAGAT
CAGCAGATGTCACCACATGGGCTTCTGAGAAAGCTCTTGAATGGGGATCGTTCTTAAACATGAATTCCTCCCTGT
ATGTTTTGTTCTTTGCTTTACTTTTACCTTGCAAAGAGATCCAGTACCTAGTATTGGAAGATCCACCTTAACGA
CCGTGCATATGAAAACCACAGTCTAAGGAAGTGACTGCAGAAAGCTCACAGCGACCCTGGCCTCCCTGTGGCCT
CTTTGAGTGTCTGCAGCAGCCCTGGACTTCCAGACTTCTATCATGAGAAAAATAAACTGATTATTGGTTTA
AGCTGC

5674/6881
FIGURE 5228

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTEKEWPLLD
SSQRKLYKDVMLENYSNLTSLG YQVGKPSLISHLEQEEPRTEERGAHQGACADWETPSKTKWSLLMEDIFGKET
PSGVTMERAGLGEKSTEYAHLEFVFGMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECH
QCQKAFTTSASLTRHRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHMRVH
TGERPYKCDQCGKAYGRSCHLIAHKRTHHTGERPYECHDCGKAFQHPSHLKEHVRNHTGEKPYACTQCGKA FRWKS
NENLHKKNHMVEKTYECKECGKSFGDLVSRKHMRIHIVKKPVECRQCGKTFRNQSILKTHMNSHTGEKPYGCDL
CGKAFSASSNLTAHRKIHTQERRYECAACGKVFGDYLSRRRHMSVHLVKKRVECRQCGKA FRNQSTLKT HMRSH
GEKPYECDHCGKAFSIGSNLNVHRIHTGEKPYECLVCGKAFSDHSSLRSHVKTHRGEKLFVSSVWKRLQ

5675/6881
FIGURE 5229

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCTTTCCGATGGATGTTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCTATTAATACTACCAATAAATTCTACTTCCTGTCCAAAAAAAAAA

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FIGURE 5230

CTAGGTCCGGACGACCGGGCTAGGGGCGCGTCATGTGGCGGCTACAGGTCGCCGCCGCTGCTGCTGCTGCTGTG
CTCAGGCGCTGGCCGGACAGACTCTCTTCCAGAACCAGAAAGAGGGCTGGCAGCTGTACACCTCAGCCCAGGCCCC
TGACGGGAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCT
GCGGCAACTGATGGAGAAGGTCCAGAACGTCTCCCAGTCCATGGAGGTCTTGAGTTGCGGACGTATCGCGACCT
CCAGTATGTACGCGGCATGGAGACCTCATGCGGAGCCTGGATGCGCGGCTCCGGGCAGCTGATGGGTCCCTCT
GGCCAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAACCTGTTGCCCTGAGCTCGGTCTGGAGCAGTACAA
GGCAGACACGCGGACCATTGTACGCTTGCGGGAGGAGGTGAGGAATCTCTCCGCAGTCTGGCGGCCATTACAGGA
GGAGATGGGTGCCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCTGCGC
CCAGAAGCTGGGCTGTGGGAAGCTGACCGGGGTGAGTAACCCCATCACCGTTCGGGCCATGGGGTCCCGCTTCGG
CTCTGGATGACTGACACGATGGCCCCAGTGCGGATAGCCGGGTCTGGTACATGGATGGCTATTACAAAGGCCG
CCGGGTCTTGAGTTCGGTACCCTGGGAGACTTCATCAAAGGCCAGAACTTATCCAGCACCTGCTGCCCCAGCC
GTGGGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAA
ATACCATTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGGCGCCGGTTACAACAACACCTTCCCCTA
CTCTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCA
GAACGCGGGCAACAATCGTGGTCAGCCGGCTGGACCCGCACACCCTCGAGGTGATGCGGTCTCTGGGACACCGGCTA
CCCCAAGCGCAGCGCTGGCGAGGCCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCCACCTGGCTGGGGC
CAAGGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATT
CCACATCTCGATGCTGGATTACAACCCCCGGGAGCGCGCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTA
CAATGTACCCCTGTTTACGTCATCAGCACCTCTGGGGACCCCTGAGCCAAATGCTGTGGCTCGGGCTGCTGCCCTG
GGGGGCCTCCGGGGGCTGGGGGCCCTTTTCATTCTGCCTGTGTCCTCAAGGTGATCTCTCTGCTCTGTACAG
CCCTTTCTCCCGCCTTTTGTGCTGGGCTTTTGTCTCTGCTCTATGTTATTCTGCTCTCTCTCTCTGCTCTCT
TTCTCCTTTATTGATCTGCTTTTAATACACCACCTCTTCTTCTGCTTTTATGGAATGCTTTTTCTTTTT
ATGGCTCTGTTCTCCAGTCTTTCCGCTCTGCTCTCTCTGCTCTCTCTCTCTCTGCTCTTCCACCCCTCCCTC
CTTGCTTCCCACCCATCTCTACCTCTACTCTCCACCCCAACCCCAACCCCAAGGAGTTGAGTGCATGGATCTGT
TTCCTTTTTTATTACATCTTTTCTTTCCGGTTTGCGGAATAAACAGGACCTTTGACATTTGAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

5677/6881
FIGURE 5231

MWPLTVPPFLLLLLCSGLAGQTLFQNPEEGWQLYTSAPDQKCICTAVIPAQSTCSRDRSRELRLMEKVQNV
SQSMEVLELRITYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQELKDRMTELLPLSSVLEQYKADTRTIVRLR
EEVRNLSGSLAAIQEEMGAYGYEDLQQRVMALEARLHACAQKLGCGKLTGVSNPITVRAMGSRFSGSWMTDTMAPS
ADSRVWYMDGYKGRRVLEFRTLGDFFIKGNFIQHLLPQPWAGTGHVVYNGSLFYNKYQSNVVVKYHFRSRSVLV
QRS LPGAGYNNTFPYSWGGFSDMDFMVDESGLWAVYTTNQNAGNIVVSRLDPHTLEVMSWDTGYPKRSAGEAFM
ICGVLYVTNSHLAGAKVYFAYFTNTSSYEYTDVPFHNQYSHISMLDYNPRERALYTWNNGHQVLYNVTLFHVIST
SGDP

5678/6881
FIGURE 5232

AGGAGGCCCTCGTGGAGGACACAGCAGCAGTGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACC CGCACTCGTTCGTGTTACGCGAGGCTGCACGGGTGCG
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCCTCGGGGTCACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCAGGAGGCCCCACCTTGACCTTCCAGGTGAAGAAGTACTCG
CTGGTGCGTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTTCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCCCAACATGAGCCGCCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTGCGAGAGCGAG
GCAGAGCCTGACGCGCACCACAACATCACAGAGCTGCCTCAGGCTGTGCTGGCCGTGGCAACATGCGGGCCCAG
CAGAGTGCACTGCGGCTCACCGAGATCGGCCCCGCGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG
GAGGGCAAAGTGATGTTCCACAGTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCCAGCAGGCCCAGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCCCAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTGCGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCCACTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTGCGCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC
AAGTCCCAGGGAGCCCAGGCCAGGCGGGGGCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCCGGGGCCGGGGC
CGCCCAGGGAAGAGAGTGGCCTGAGCCCAAGCCGACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCTATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAAGTGAATT
GGC

5679/6881
FIGURE 5233

MGQSGRSRHQKRARAQAQLRNLEAYAANPHSFVFTRGCTGRNIRQLSLDVRVMEPLTASRLQVRKKNSLKDCVA
VAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTTFQVKKYSIVRDVSSLRHRMHEQQFAHPPLLVLNSFGPHG
MHVKLMATMFQNLFPSINVHKVNLNTIKRCLLIDYNPDSQELDFRHYSIKVVPVGASRGMKKLLQEKFPNMSRLQ
DISELLATGAGLSESEAEPDGDHNITELPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF
VSKTEEELQAILEAKEKKLRLKAQRQAQQAQNVQRKQEQREAHKKSLGEMKKARVGGSDDEEASGIPSRITASLEL
GEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQKRLAKSPGRKRRWEMDRGRGLCDQKFPKTKDKSQGAQARR
GPRGASRDGGRGRGRPRGKRVA

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FIGURE 5234

CTTTTTGCGATGCTTACTGGGGACTTTGATTCCAAGCCCAGTTGGGCGGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTACACGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCTATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTGCA
AGGAGGAAGAAGTGAAGAAGTTCGGGAAGTCAGAGTTTGACCCCCCGGACCCAATGTGGCCACCACCACTGTC
AGTGACGATGTCTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAAGTGGCAGGAGGAGGAGGACCCCTATGAAC
AAACTCAAGGGCCAGAAGATCGTGTCTGCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTCCGGCCTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTCGCCTTCATCAGCTTCCACCGCCGCGAGGATCGTGCGCGTGCCATT
GCCGGGGTGTCCGGCTTTGGCTACGACCACCTCATCTCAACGTGAGTGGGCCAAGCCGTCCACCAACTAAGCC
AGCTGCCACCGTGTACTCGGTCCGGGACCCTTGGCGACAGAAGACAGCCTCCGAGAGCGGGGCTCCAAGGGCAA
TAAAGCAGCTCCACTCTCAA

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FIGURE 5235

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDTSPPELLPGAPLPPPKEVINGNIKTVTEYKIDED
GKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQEEEDPMNKLK
GQKIVSCRICKGDHWTTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNKTGKYVPPSLRDGASRR
GESMQPNRRADDNATIRVTNLSEDTRDTDLQELFRPFGSISRIYLAKDKTTGQSKGFAFISFHRREDRARAIAGV
SGFGYDHLILNVEWAKPSTN

5682/6881
FIGURE 5236

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTCGGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCAGCGCGGAGT
CGCGGGCGGTAGGGCGGCGTCGCGTGCGTGACGTCATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGGTGGGAGGCTGCGCGGCGATGCTGCAGTTTCGTCCGGGCGGGGCGCGGGCCTGGCTTCGGCCTACCGG
CAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG
TCTCCCGGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCCAGTGCAGGCCTGGGTGCA
GTCTTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTGCCCACCGCGCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGGCGGTGGCCGAAGCCTTGGCCGAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTTCGC
CTTCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA
CTTCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCCTGGCCGACTTGGGAGCCTCAGGCCCACGCCACCCCTTCGAGGAAGGTGTCACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCAGACGGGCTTCTGCATCCATTCCCTCTTTTTGTTTTTAAATAAATTGTATTTTG

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FIGURE 5237

GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGIGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCCGGCATCA
GGCCCCGGGTGGAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAACTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTGACACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCGGGCGGCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCCTCTACTTGCGCTGCTCGGCCAGCCTGGGGGGCCCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCCATTAAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTACCAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTGCTGTGCTGTGTCTTCTATTGGCAAACAGCAAT
GATCTTCCAATAAAAGATTTTCAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5238

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRKLKELEVAE
GGKAELERLQAEAAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTL SKDGF SKSMVNTKPEKTEEDSEEVREQKHKT
FVEKYEQIKHFGMLRRWDDSQYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTI VMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVMQLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

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FIGURE 5239

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCATAGCGGGGCTGGGGCCTG
CTGCCGATTCTGCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTACACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCAGTTTCATGGCCCAAGGTGGTGTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTGCGCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTATGAACGGTGCTGTATGTACCA
GATCGACAGCGTTGTCCGTGCCTGCAGTGACTTCCTGGTGCAGCAGCTGGACCCACAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCCACTGCCAAGTGGTGACCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGGTTCTA
CGTCCAGGCGTGTCTGCGGGCGGTGCGCTGCCACTCGTTGACGCCGAACCTTCTGCAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCGCCTGATCTACACGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCAGTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACCTGCCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTCGCCCTGCGCCCCCATGAGCGTGCCCCG
TAACCGCATCGGGGTGGGGGTCAATCGATGGCCACATCTATGCCGTGCGCGGCTCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTAGCTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGCAGGCGTCTG
CGTCTGCACAACTGTATCTATGCTGCTGGGGGCTATGATGGTCAGGACCAGCTGAACAGCGTGGAGCGCTACGA
TGTGGAACAGAGACGTGGACTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCCTTGGAGGCTATGATGGTCACACGTTCTGGACAGTGTGGAGTGTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTACCATGGAGCCCTG
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACCTTTGTTTCTTGGGCAAAAATACAGTCCAATGG
GGAGTATCATTTGTTTTGTACAAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGAGGCCAGGATGCCTCAGTGTAAAATGACATCTCAAAGAAGTCCAAAGCGGGAATCATGTGCCCTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAGAGCAGGCTTCAGGAGAGAGGCCC
CCAAACCTCTGGCCGGGTAAATAGGCCTGGGTCCCACTCACCCATGCCGGCAGCTGTCACCATGTGATTATTCT
TGGATACCTGGGAGGGGGCAATGGGGGCTCAGGGGGAGGCCCCCTCTGGAATGTGGTTCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGGATGGACAGTTATTTGTTGATAAGTAACCTGTAAATT
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTC

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FIGURE 5240

TTTTACAAAACGCTCTCCTTGTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAAATATGTTGATGAGGAGAACTCAGACGGGGAGACT
TCCAATCACAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCAGGAGGAGGCCGACTACATCGAGTGGCTGAAGGGACAGAAAGAGATTGGAACCCA
GATTCCCTGAAGGAACTGACGCATCTCAAGGAATACTGGAACGACCCTGAGTTGGATGAAGGGGAGCGGTTCCCTG
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGCGTCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGAAGAGACTCGGGAGCGAAAGAAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCT
GCCCAGCACGACCAGCTCATGCAGAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAACCTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTGTTGAACCCGGGGACAAGACGTTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTCGCTTCAAGTACCGCACAGTGGTGGCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTCAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCCAAGAACTCATGGAAAAGCGGCAGGTCTTCAAGTCACTC
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGGAGAGTCCCCAGCACAGGAAGAGGAAGCCCTGTATCACCC
CACAAGAAGCCAGCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGGAGCAGGCAGGGGCCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCCAGCACTTTGGGAGCCGAGGTGAAAGGATCACTTGAGCCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCCTGTCTCTTG

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FIGURE 5241

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACCATGTCCGCCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACCTTTGTCAATCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCACCCACTGTCAACAACGCTGTGTCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTCATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC
ATCAAGCTCAAGGTGTTTCTGTCAAGGAATGCCAGAGCTGCGGCTGGGCCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCGCAGCAAGAACAATCAGTAGAGCTGGAGGATGTAAAATTCCACCAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCCTGATGGTGACTTTGAGCTCATGTCATACCGCCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTCAATTGAGAAGTTCTCCACAGCCGCGTGGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTTGGAGTATTAAGTCT
TTCCCGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCCAGTGTGGAAAAGGAAGAGGTGGAGGGC
CGGCCCCCATCGGGGTCAAGTTTGAGATCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAGTGGTTACAGGCCCTGCCCTGGGTTCGCTACATCACCCAGAGTGGCGATTACCAACTTCGTACC
AGCTTAGAAGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTCTGTGTGAGGGCAGGTCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCATAGGCTGGGAGAGAACTCTCTGCTTCCCTCGCCCTTGGAGCTTCCCCATC
CCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCCCCTCGCGAGTGCCTTCTTGCAATTACCTGCC
TTAGCGGGTGTGCGGGTCCCTCCTTCACAGCCGCTGAGCCCAGAGGTCCCGCTGGCCCCCTCCTCTGAATTTAG
GATGTCATTAAAAAGATGAATCTA

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FIGURE 5242

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNA
NASLVYSFLYKTIEVFCEYFKELEEEESIRDNFVIVYELLDELMDFGFPQTTSKILQEYITQQSNKLETGKSRVP
PTVTNAVSWRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLKVFLSGMPELRLGLNDRVLFELTGR
SKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQ
FKKQSVANGVEISVPVPSDADSPRFKTSVGS AKYVPERNVVIWSIKSFPGGKEYLMRAHFGLP SVEKEEVEGRPP
IGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS

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FIGURE 5243

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACCTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCTCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGGCACAAAAACGAGAACAACCCCTATCTGTTTTATTTCAACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCCTCCCAGATCTGCGTGAAAAATGCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCTTGGCTTCAAGAACAATAAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCTCATCCCCAGCAAACCCTTGGCCCGGAGATGCTTCCCCGCT
ATCCACGCCTACAAGGGTGTCTGTATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCTTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTTCATC
ATCCTGCTTCGCTTCTCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGTGCTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCCGGGTGTACCTGCACTTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTTCTCCGGAAGAGAATTCTCATCGCGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCTCCTCCAATGAGTCCCGCCAATGCCCAATGCC
CGTTGCCAGTTTCGCCTTCTACGGTGGTGAGTGGGGCTACCAACGGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGGTTGGCCAACCTTCGTGCTGGCGCTGGGCCAGGTCACGCTGGCCGGGGCCCTTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCTGGCCATTGTGTCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAAACAAGTTTGCCAAGTGCCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCAATTTCTGCACC
TCGGCCAGGAATGCCTTCTTCTGCTCATGAGAAACATCATCAGAGTGGCTGTCTGGATAAAGTTACTGACTTC
CTCTTCTGTTGGGCAACTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTCTTCTTCTTACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTCTTACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTCTTACGCTCTATGGCATGTGTGTTGGACACGCTGTTCTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCTTACTTCATGTCTTCCACCCTCAAGAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

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FIGURE 5244

GACCGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCGGGGAGGTGCGGGAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAAGAGATAAGGGGG
GGGCTGAGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTTGCCTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTCGCGGTTTCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCGGTACTGGGAGTCCTCCATCACGTGACGAGGGGCACGCTCTGTTTTTCGTAA
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT
TTTGGCCTGCGCGGCCGCCATCTTACGCCCGTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTTCGGGCTCCAGTGAGGTTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCCGGGACCGCGCCAATGCGCGCCCGGGTTCTTGGGTTCTTTCGTCCCGCAGACCTGCCTTGGTGT
GGCGTCCCTGGGCGGTAGCTTCCGAAGGCTGCAGCCGACCTGGTTCGGGCTCCTTAGCCCGCCTTCCCTTCCCC
CATTGACAGATGGAGAACTGAGGCCCAGGCCAAAAAATATCTCACTAGAGGGCTCACCGCCATTTCTTGGAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGCTCTTACAAGCGTGGTGTTCTTGAATGCTTCCAGCGCGCTTATGAGCCCCCGATGTACAATCTGTGCT
TAATAAACCCCACTGTCTTCCAGGGTCAGGTTGGCCATCCGCAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCTGTGTGATTGAGACGTTCCAGGATTGAGGCAAGAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGTTGAGAGCCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCACCTA
CTTGGGAGGCTGAGGCAGGAGAATTGTTTGACCTGGCAGGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTATCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTGAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAAACACCGTCTCCACTAAAAATAGAAAAATTAAGTGGGTGTGGTG
GAGGGCGCCTGTAAATCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAAA
AAAATTCGCCAGGTGTGGTGGTGTGCGCCTATAATCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACCTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCACTGCACTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAAGAGTGTAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAAACAAGCAAGTTTTCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGGAGCAAAGTTGAAAAGAAAAATTCCTTTACTG
TCTCTCCTTTTCTGAACCATTAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAAGTCTTTGTTTTGCTTCTGTAAGTTTGCTATAAAAAACCACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGATCATCTAAATAAATCCTCCTGTTTCC
GT

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FIGURE 5245

MAPLHSSLGDRARLRRLPILKKKKKKKKCKDVIMWQGVRVKKKTRTSFPLLSQLTSRTVITLKSRGQRNGLQTAS
SGAKLKRKIPLLSLLF

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FIGURE 5246

GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCTCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCTTAACCCCTGATTTTGATGGGATGTG
TTCATGTCCTATCTCCTCTCCTGGACACATTAAGGGGTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCGCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCCCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCACTGCTGATGATGCCGTCATGCTGCTGGCCTGAGACAGTATCCCAGCTACAACAGGACGACACCGGGTTTACG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCCTTCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTTCACTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAAGTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTGG
GGCTTCATGAAGTAGGATGAAAGGAGGCCCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACTCTGGGCAGGGATGCCGTGAGCCTTGAGGGTTCGCCACCCACCTG
TGTGTTGCCCTCTGTCTGGCAGGGAAACATACACCCCTTGTCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTGCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATAACAATGTT
GGGCAACAACCTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCTATCCAGAATAAATGGAGACTTCA
TGTGTT

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FIGURE 5247A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTCGTTGAGGGTCGGCGGGCGGGCAGGAGCGCAGGGCGCTCGGGCCGGGGCCGCCGGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCCTCAGCTCCATCGGCCAGAGCTG
CCACCTGGACCTGCCGAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACTTCGT
GGGCGGGGACTTCTTCCCGCGGTTTCCAGGAATCGTCACCCGGCGGCCTCTCATTCTGCAGCTCATCTCTCAAA
AACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCAAGTGGCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACCTTGACCCTCATCGACCTCCCGGTATCACCAAGGTGCCTGTGGGCGACAGCCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTACGCCCCG
CAACATGGACCTGGCCAACCTCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATCACCAAGCTTGACCTGATGGACGAGGGCACCAGCCAGGGACGTCTTGAGAACAAGTTGCTCCCGTT
GAGAAGAGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCTCTCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCTGCTGCCGGCCCTACGTAGCAAACTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAATTTCCGGCCCGACGACCCACCCGCAAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCCAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTCAACCCCGGACTTGGCATTGAGGCCATTGTGAAAAAGCAGGTCGTCAAGCTGAAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACAGTAAGCTCAGTTCTTACCCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCTTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCAGCAGAG
GAGCACGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGCAGGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCTCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCAGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCTCCGAGCTGGCGTCTACCC
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCAGGAGAACACCTTCTCCATGGACCCCCAACTGGAGCGGCA
GGTGGAGACCATTGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTCATCCACCACGAGCTGCTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTCGGCTGACCAGGCACAGCGGCGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATACCCC
CCCTGGCCGGCCCCAGCAGTGAGGGGGCCCCACTCCAGGGCCCCCCTGATTCTGTTCCTGTTCCCGTGGGGGCAGCAGC
CTCCTTCTCGGCGCCCCAATCCCATCCCGGCCCTGGACCCAGAGCGTGTGTTGCCAACAGTGACCTCTTCCCAGC
CCCGCCTCAGATCCCATCTCGGCCAGTTTCGGATCCCCCAGGGATTCCCCCAGGAGTGCCAGCAGAAGACCCCC
TGCTGCGCCCAGCCGGCCACCATATCCGCCACGCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGCGTG
CTCTCGGGGGGGCCTCAGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCTATGCTGGG
ACCAGGCTCCAGTGGGCAGCCCTGGCCTCTTCCCTAACGCTGGCCCCGGTCCAGGGCCGGCCCCCTGTGCTGGC
TGGACACCGCACTGCGCAAAGGGGGCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTGCACTTTGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCGGCCATATTAACCACACAGCCT
GAGCCTGGCCAGCCTCGGCTGCCAGAGGTGCCTTTGCTAGGCCCGGAGCCGTTGGCCCGGGCCGGCCTTGCCCT
ATTCTCTCTCTCTCTCTCTCTGGGTCCCCCAGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGG
TCTTGGGGGGCCTCTCAGCTCCCGCCCATGCCTCCCTGATGGGTGGGCCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCCACTCCTCGCTCAGTTTGACCACTGTAAGTGCTGCACTCTGTATTCTATTAAATAAACTAAATAAAGGGA

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FIGURE 5247B

AGACGCTGCTGGTG

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FIGURE 5249

MAAAAAVGPAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRA GPDSAGIALYSHE
DVCVFKCSVSRETECSRVGKQSFIIITLGCNSVLIQFATPNDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYF
QFYGYLSQQQNMMDYVRTGTYQRAILQNHTDFDKIVLDVGC GSGILSFFAAQAGARKIYAVEASTMAQHAEVL
VKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYLKPSGNMFPTIGDVHLAPFTDE
QLYMEQFTKANFWYQPSFHGV DLSALRGA AVDEYFRQPVDTFDIRILMAKSVKYTVNFLEAKEGDLHRIEIPFK
FHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDI
SIVAQVDQTGSKSSNLLDLKNPFFRYTGTPSPPPGSHYTSP SENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIA
SGSSVGHNNLIPLANTGIVNHTHSRMGSIMSTGIVQGSSGAQGSGGGSTSAHYAVNSQFTMGGPAISMASPM SIP
TNTMHYGS

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FIGURE 5250

GGCACGAGGGGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGA
GCCCCAGCCACGCCGGCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCTGAACGACCATGGCATCGGCCGA
CGAGCTGACCTTCCATGAATTCGAGGAGGCCACTAATCTTCTGGCTGACACCCAGATGCAGCCACCACCAGCAG
AAGCGATCAGCTGACCCACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGA
GGTGGAGGAGGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTT
CAGCTACTATCAGAGCTTCTTTGACGTGGACACCTCACAGGTCTGGACCGGATCAAAGGCTCACTGCTGCCCG
GCCTGGCCACAACTTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCCTTCTGGATCTGTGCCAC
GTTGGCCTTTGTCTCGCCGTCAGTGGCAACCTGACGCTGGTGTGGCCAGAGGAGGGACCCCTCCATCCACTA
CAGCCCCCAGTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCTGGCCCT
GTGGGGCTTCCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCCTGGAGACTGTGTGCAT
CTACGGCTACTCCCTCTTTGTCTTCATCCCCATGGTGGTCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCT
CTTTGGGGCGCTGGCCCTGGGCCTGTCAGCCGCCGGGCTGGTATTACCCCTCTGGCCCGTGGTCCGCTGAGGACAC
CAGGCTGGTGGCCACAGTGCTGCTGTCCGTGGTCTGTCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTA
CTTCTTCCAGTCGCTGCCTCCGGAGAACGTGGCTCCTCCTCCCCAAATCACATCTCTGCCCTCAAACATCGCGCT
GTCCCTACCTTGCCGCAGTCCCTGGCCCCCTCCTTAGGAAAGGCCCGGGTCCCACAGGCAACACCTAAGTGGACCA
ACCCCTCTGCCTGTCTGCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTC
CAGACTTTTCTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTCAGAGAATTTATATAAAGGCGGGCG
AGGGGCAGCCGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCGGGCCACCTGCTTTCCCTCC
TATGGCTCCCCTGGAACAGGAGGGAGAGCCAAGGGGGCGGCCAGCCTGGACAGCGCCGCTCCTGCCTGGGTGC
ACACACGGCGGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAAAC
GCCTGTGCTGCAA

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FIGURE 5251

MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQP
GFWTFSYYQSFFDVDTSQVLDRIKGSLLPRPGHNFVRHHLRNRPDLYGPFWICATLAFVLAVTGNLTLVLAQRRD
PSIHYSPOFHKVTVAGISIIYCYAWLVPLALWGFWRKGVQERMGPYTFLETVCIIYGYSLFVFIPMVVLWLIPVP
WLQWLF GALALGLSAAGLVFTLWPFVREDTRLVATVLLSVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLP
SNIALSPTLPQSLAPS

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FIGURE 5252

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCAAGACGGAAGAGG
ATGGCCGCGGCGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG
GGAGTGTGGGCGCGGCTGGGGTCCTGGGCCCCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGGGCGGCCTGCTTCACG
CTGGCGCCACGCGAGGGTGCCCTTCGAGGAGGCGCTGCTGGAGGCGTCGGGGACCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACCGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCGGCCGGGTCTGGACGTGGGCTTCGTGGGTGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTGCGGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCACGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGAGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCGAGATTGAAACCCTGAGGCCCGAGTCCTGGCAAAGTGCCTGCGCTGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTCTTCTCACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTTCATCACTGGCAGAGCTGGTCATGAGCCTTTATATA
AGCCTTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACCTCTTCTA
AGGCCACTTAGATTTTCTTTTCAAGTTTGGGTTGTGGCCTGGCATGGTGTATGTCTGTAATCCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAGGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAATAAATAAAATTTGAGCTG

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FIGURE 5253

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRAAVYVGLLGGAACFT
LAPSEGAFFEEALLEASGTLLLLAPATRNRESEAFVQRLWLGRGRRLRYVNLGLCSLVYEAPFDAQASLYQARCR
YLQPRWTDFFPGRVLDVGFVGRWWVLGAWMRDCDINDEFLLHLPALHVRVVGPPQLHSETNERLFDEKYKPVVLTDD
QVDQALWEEQVLQKEKKDRLALSQAHSVLVQAEAPR

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FIGURE 5254A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGIGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGAGGCTTCCCTCGTTTGGCGGCGGCGCGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCCATTCTGCCCCGGCCCCGCGCGAGGGGCGGGGAGGCGCGGGAAGTC
GACGGCGCGGCGGCTCCTGCAGGAGGCCACTGTCTGCAGCTCCCGTGAAGATGTCCACTCCAGACCCACCCCTG
GGCGGAACCTCTCGGCCAGGTCTTCCCGGGCCCTGGCCCTTCCCTGGAGCCATGCTGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCACAGCATGATGGGGCCAGCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCAIGCATGAGAAGGGC
ATGTGCGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCAGCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCGTCTTCGGGGCCCCAGATGTCTTCCGGGCCAGGAGGTGCCCGCTGGATGGTGCTGAC
CCCCAGGCTTGGGGCAGCAGAACCAGGGGCCAACCCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCCGGATGCAGCAGCAGATGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCCGGCCCGGTCCCGGCCCGGCACCTCCAAATTACAGCAGGCCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCAGGACCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCACCCGCCGCTCGCCCGTGTATGCCACCCGACAGCCAGTCCCCC
GGGACGCCGGCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCATCCAGAAGCCG
CGGGGCTCGACCCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTCAG
GAACTTGAAAACCTTCCCGGGTCCCTGGCCGGGGATTTCGGAACCAAGCGACCATTTAGACTCAAGGCCCTCAGG
CTGCTGAACTTCAGAGGCAGCTGCGCCAGGAGGTGGTGGTGTGCTATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCTGGCCTACCTCTGCAGCAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAGGCTGCCAGGTGCCAAGGAGAAAAAGAGAAA
AAGAAAAAGAAGAGGCAGAAATGCAGAAGGACAGACGCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCAGGACAGATGCC
CCCAAGCCGGGCAGCTGGAGGCCCTGGCTCGAGATGAACCCGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAGGAAGAGCAGCCGAGGCAGCAGCCTCCACCCCTGCCC
GTGGAGGAGAAGAAGAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTGATGATGAATATGGCGTGTCCAGGCCCTTGACGTGGCCTGCAGTCTTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCAGTACCTCATGGAGCACAACGCATCAATGGGCCCTTCCCTCATC
ATCGTGCTCTCTCAACGCTGTCCAAGTGGGCGTACGAGTTTGACAAGTGGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCAAAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCTCGCCCTGCTG
CTGACGGGCACACCGCTGCAGAACAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCTGTGCCCACCATCTTC
AAGAGCTGCAGACCTTCGAGCAGTGGTTTAACGCACCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTTCTCATCATCCGGCGTCTCCACAAAGTGCTGCGGCCCTTCTGTCTCCGACGACTCAAGAAGGAA
GTGAGGCCCCAGTTGCCGAAAAGGTGGAGTACGTATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGTCTTAC
CGCCACATGCAGGCCAAGGGCGTGTGCTGACTGATGGTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCTTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCCAAACCTCCGAGCAACCAACCAAAAGTGCTGCTGTCTGCCAAATGACCTCCCTC

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FIGURE 5254B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCCACACTGCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCCGACGACGAGACCGTCAACCAGATGATCGCCCGG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCCGCAACCCCAAGCGG
AAGCCGCGCTCATGGAGGAGGACGAGCTCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTTCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCAGGAGGGCAGCGTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCGGCTCCTCCACCCCGACCACCAGCACCCCGAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCGCCTGCCGAGAACTCTCCCCTAACCCACCCCAACCTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCCAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGCACTCGGTCTTACC
AGCGTGCGGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCCGGCGGCGCCGAGCCGAGGGTCCCGAGCCAAGCCGGTCTGTGAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTA
AACTGTATAAACAAAAGAACTCTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAACAGCATTAACTGTCTTAAAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTCTTTTCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCCTACTGTATTTTATTGGACAGGTCAGACTCGCCGGGGGCCCGGCGAGGG
TATGTCACTGTCAGTGGATGTCAAACAGTAATAAATTAACCAACAACAAAACGCA

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FIGURE 5255

MSTPDPPLGGTPRPGPSPGPGSPGAMLGPSPGSPGSAHSMGPPSPGPPSAGHP IPTQGPGGYPQDNMHQMHPK
MESMHEKGMSDDPRYNQMKGMGMRSGGHAGMGPPSPMDQHSQGYPSPLGGSEHASSPVPASGPSSGPQMSSGPG
GAPLDGADPQALGQQNRGPTFFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMFPMGQQMP TLPPP SV
SATGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
KLIPPQPTGRPSAPPAPVPPAASPVMPPQTQSPGQPAQFAPMVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGSLAGDLRTKATIELKALRLNFORQLRQEVVCMRRDTALETALNAKAYKRSKRQSLREA
RITEKLEKQQKIEQERKRRQKHQEYLSILOHAKDFKEYHRSVTGKIQLTKAVATYHANTEREQKKENERIEKE
RMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLTTELVRQHKAQVAKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGTDAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEKKKIPDPDSDDVSEVDARHIIENAKQDVDEYGVSQALARGLSYYAVAHAVTERVDKQSALMV
NGVLKQYQIKGLEWLVS LYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGS PAARRAFVPQLRSGKFNVLLTTEYIIKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTPLOKLPFWALLNFFLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAQGVLLTDGSEKDKKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRIPLKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKTFFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQONEVR
VLRLLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDES RHCSTGSGSASFHTA
PPPAGVNPDLLEPPLKEEDEVPPDETQNMARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVRQKKSSRKRKRDSDAGSSTPT
TSTRSRDKDDESKKQKGRPPAEKLSPPNPNLTKKMKKIVDAVIKYKDS SSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFKKIKERIRNHKYRSLNDLEKDVMLLCQNAQTFNLEGS LIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEGSESESRSVKVVIKLG RKEKAQDRLKGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

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FIGURE 5256A

GGCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGCATGGGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGCCGTGTCAACCGCTGCATTCCCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCAAGACGTGCTCCCAGGACGAGTTTCGTGCCACGATGGG
AAGTGCATCTCTCGGCAGTTCTGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCTCCTGCCCCG
GTGCTCACCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCAGCTGTGGGCTGCGACAAC
GACCCGACTGCGAAGATGGCTCGGATGAGTGGCCGAGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCTGCTCGGCCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGCATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAACCTGCGCTGTGGCCACCTGTGCCCCTGACGAATTCAGTGCTCT
GATGGAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCAACAAGTTCAAGTGTACAGCGGCGAATGCATCACCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGGGGACCAACGAATGCTTG
GACAACAACGGCGGCTGTTCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCAACGAGGCTGCAAGGCT
GTGGGCTCCATCGCTACCTCTTCTTCCAACCGGCACGAGGTGAGGAAGATGACGCTGGACCGGAGCGAGTAC
ACCAGCTCATCCCCAACCTGAGGAACGTGGTCTGCTGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCACGGCGTCTCTTCTATGACACCGTCTATC
AGCAGAGACATCCAGGCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTACGGGAGAACGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTTATGGCTTCATGTACTGGACTGACTGGGGAACCTCCCGCAAGATCAAGAAA
GGGGGCTGAATGGTGTGGACATCTACTCGTGGTGGTACTGAAAACATTACGTGGCCCAATGGCATCACCTAGAT
CTCCTCAGTGGCCGCTCTACTGGGTTGACTCCAAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTTCAGTGCCAACCGCTCACAGGTTCCGATGTCAACTTGTGGCTGAA
AACCTACTGTCCCCAGAGGATATGGTTCTTCTCCACAACCTCACCCAGCCAAGAGGAGTGAATGTTGTGAGAGG
ACCACCTGAGCAATGGCGCTGCCAGTATCTGTGCTCCCTGCCCGCAGATCAACCCCACTCGCCCAAGTTT
ACCTGCGCTGCCCGGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTGAGCTCCACAGCCGTAAGGACACAGCACACAACCCCGA
CCTGTTCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACACGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCIGGGCGACGTTGCTGGCAGAGGAAATGAGAAGAAGCCAGTAGCGTGAGGGCTCTGTCCATTGTCTC
CCCATCGTCTCCTCGTCTTCTTTGCTGGGGGCTTCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTGGACAACCCGCTATCAGAAGACCACAGAGGATGAGGTCCACATTGGCCACAACCAGGACGGC
TACAGCTACCCCTCGAGACAGATGGTCACTGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCT
GCCAGAACCCTTCCCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCATCTGGGAGGCAGAACAGGCTTCGGACAGTGCCCATGCAATGGCTTGGGTG
GGATTTTGGTTTCTTCTTCTCGTGAAGGATAAGAGAAACAGGCCCGGGGGACCAGGATGACACCTCCATTT
CTCTCCAGGAAGTTTTGAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT
CAGGCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCACGGGACCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTTAGCCTTTGCCCTGTACCCCGAATCATGACCCACCCAGTGTCTTTGAGGTGGGTTGTACCTTCC
TTAAGCCAGGAAAGGGATTTCATGGCGTCGGAAATGATCTGGCTGAATCCGTGGTGGCACCAGACCAAACCTCATT
CACCAATGATGCCACTTCCAGAGGCAGAGCCTGAGTCACTGGTACCCTTAATATTTATTAAGTGCCTGAGAC
ACCCGTTTACCTTGGCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTGAGGACACCGCTGGTGGCCAT
CCTCCGACCCCTACCCACTTCCATTCCCGTGGTCTCCTTGCACTTTCTCAGTTTCAGAGTTGTACACTGTGTACA
TTTGGCATTTGTGTTATTATTTTGCAGTGTCTTCTGTCTGTGTGTTGGGATCCAGGCCAGGGAAGCC

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FIGURE 5256B

CGTGTCAATGAATGCCGGGGACAGAGAGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCGTCTTTATGTCCGCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC
CCAATCTTGTCGTTGATGGGTATGTGTTTAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGCACTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAAAACCATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTGAGGCTGTCGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCTATTTAGAAATACAACATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTGAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCAGTGACAGGAACCGTGATAAGCCTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGGATTTTTTGTATGTTTGCACCTTTGTATATTGGTTGAACTGTTATCACTTATA
TATATATATATACACACATATATATAAAATCTATTTATTTTGCAAACCTGGTTGCTGTATTGTTTCAGTGACT
ATTCTCGGGGCCCTGTGTAGGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTTGGGAGAAATGATGTCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTAAACCACTGTATAGAAGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

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FIGURE 5257

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCCATCCCGCCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCCTCGCCTGCCTGGGCCTCAGTTCCACATCTGCACAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCCTGGCCTTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTCGGTGTCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCTCCTGCTTGTCTACGCACTGGTCACTGCCGGGCCCCACCCTACGATCCTGCTGGGAGA
GCTGGCGCGTGCCTTTTTCCCTGCACCACCTTCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGC
CTGCTGCCGCTTCAGCCCCCAGTGCGGAGGCTGGTCCGCTTCCCTGGGGGTCTACTCCTTCGGCCTCTTCACCAC
GACCATCTTCGCCAACGCGGGGCAGGTGGTGACGGCAATCCACGCCACACTTCCGTCCGTGTGCCGCCCCAA
CTACACGGCCCTGGGCTGCCTGCCACCTTCTCCGGATCGGCCAGGTCCCGACCGCTTGTCACTGACCAGGGTGC
CTGCGCTGGCAGTCCCAGCCTCGTGGCCGCGCGCGCCGCGCCTTCCCCTGCAAGGATGCGGGCCCTCTGCGCCTA
CGCGGTACCTACACAGCGATGTACGTGACTCTCGTGTTCGCGTGAAGGGCTCCCGCCTGGTCAAACCCCTCGCT
CTGCCTGGCCTTGTGTGCCCGCCTTCCCTGGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTTCGGA
CGTGTCTGGCTGGCTTCCCTGACAGGGGCGGCCATGCCACCTTTTTGGTCACTGCGTTGTGCATAACTTTCAGAG
CCGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGATTTCGACACCGGCACGGCTACCCCATCCAAGTCGCAGAACTGCGCCCCG
CGTGGCCACCTGATCCCCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTTCGTGCCCCGTGTGCCCCGTCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCTGCCCTACCCCTGCCAGCGCCACCCCCAGCCAGGGCCCCCTCG
CCTTCCCTCCCTGGACCTGGGGGGCCAGGCGGGGTGGTGGACGTGGCCGGAAGCTGTGCTGCCACGCCCCCTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACCTTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCGACCAACCCAGAACTCTGCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCAAGCCAGCCAGACCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCACAAATGGAAGGTG
CGCACTTGCCCCCTACTATTGCCCTTTTAAGGGCCAAAGCTTGACCCCATTGCCATTGCCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCCTACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTCAGCGACTGAACAGCCAATAGGAGCCCTTGGTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTATTGAGTCTTCTCTCAGAATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCCCATG
GCAGGGTCCCTTGGGGTACCCCTTTTCTCTCAGCCCTCCCTGTGTGCGGCCTCTCCACCTCTCACCACCTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGTTTTTGGGGTTCAGGGTGTGTGTCTCCCTTGCC
TGTGCCCAGGTCAATCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTCTTCTTTTCTTGAAC
CTGCCCTGTTCTTACACTGCCCCCATGCCTCAGCCTCATAAGATGTGCCATCATGGGGGGCATGGGTGGAG
CAGAGGGGCTCCCTCACCCGGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAACAG

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FIGURE 5258

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATCATGGACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTTCGGCTCCCTTTGTCTCCTGCTGCTGGGGCCGCCTGGGCGCCCCCGCCTAACCT
CCCCGACCCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGGCCGGGGGCCGAAGAGCTTCTGTGCTTCACCGA
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGCACCAGGCTCCACGGCTCGTGGTGCGGTGCGCTT
CTGGTGTTCGCTGCTACAGCCGACAGCTCGAGCTTCGTGCCCCCTAGAGTTGCGCGTCACAGCAGCCTCCGGCGC
TCCGCGATATCACCGTGTTCATCCACATCAATGAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT
GGCTGACGAGAGCGGCCACGTAGTGTGCGCTGGCTCCCGCCGCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGACCGAGTG
TGTGCTGAGCAACCTGCGGGGCGGACGCGCTACACCTTCGCCGTCCGCGCGCGTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTTCGGAGCCTGTGTGCTGCTGACGCTAGCGACCTGGACCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTTCATCCTGGTGTGCTGACCGTGTGCGCTGCTCTCCACCGCCGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCCGAGCCCAGAGAGCGAGTTTGAAGGCCTCTTCACCACCCACAAGGGTAACCTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCTGCACCCCTTCACGGAGGACCCACCTGCTTC
CCTGGAAGTCCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAGCATGCCAGGATACCTATCTGGTGTGGACAAATGGTTGCTGCCCCGGAACCC
GCCAGTGAGGACCTCCAGGGCCTGGTGGCAGTGTGGACATAGTGGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCACCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCCAGGGAGCCCAAGGGGGCTT
ATCCGATGGCCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCAGCTATGT
GGCTTGCTCTTAGGACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAATTTTTTAAATATGTATAGTTTTTTTG

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FIGURE 5259

MDHLGASLWFPQVGSCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPG
NYSFSYQLEDEFWKLRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVG
LVARLADES GHVVLRLWLPPEPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTF AVRARMA
EPSFGGFWSAWSEPVSLLTPSDLPLILTSLILVVLVLLTVLALLSHRRALKQKIWPGIPSESEFEGFLTTH
KGNFQLWLYQNDGCLWWSPTFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPLLEPVGSEHAQDTYLVLDKWL
LPRNPPSEDLPGP GGSVDIVAMDEGSEASSCSALASKPSPEGASAASF EYTILDPSSQLLRPWTLCPELPPTPP
HLKYLYLVVSDSGISTDYSSGDSQGAQGGLSDGPYSNPYENSLIPAAEPLPPSYVACS

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FIGURE 5260

ATTTTTCAGAGCCCTAGGAATCCGAGCTGACGGATCCCTGACAGGGGCGACTGACTCCTAGTTATCCCCCTAACC
CCTAGGGGCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGCAGGGCGGCCTCCGCCAACGCCCTGCCTCC
TCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGG
CAAGGGCACAGCCCAGGCGTGGACCCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCCTC
TGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACCTGTTAGAGGGTGACCGGAAGGCTTTTTTTGAGAG
CTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACATAA
GCTGCTGGACCTGCTCAAGGGAGATGAGAAAGTGGTCCAGGCAGTGATTTCGGAATGGAAGTGGGAGAAGCCATA
CCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGC
CCTGCGGCACCAGGTGGTGTGCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCTTCTGGA
GATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCGGAACCTGGAGAACCCTGGAGAAGGC
CCAGATGAAGGCGCAGGAGGCCGAGCACATTACCAGCGTGTACCTGCAGCTCAAGGCCCTATCTAATGGACGAGAG
CCTCAACTTGGAGAACCGGCTGGACTCCATGGAGGCTGAGGTGGTGGAGACCAACATGAGCTGGAGGCACTGCA
CGTGGTGAACCAAGAGGCCCTCAATGCCCGGGACATTGCCAAGAACCAGCTGCAGTACCTAGAGGAGACCTTGGT
TCGAGAGCGCAAGAAGCGGGAACGCTACATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAACTGGAGAACGA
GCGCATGGAGCGCAAGACCCACCGCGAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCATGC
CAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGCAAGGTCAAGGACGCCAC
TGGCACTGACGAGACGCACTCGTTGGTGGCGCGGTTCTGGCCAGGGCGACACCTTCGCGCAGTTGGAGACGCT
CAAGAGCGAGAACGAGCAGACGTTGGTGGAGGCTGAAGCAGGAGAAGCAACAACCTGCAGCGGGAGCTGGAAGACCT
CAAGTACTCGGGGGAGGCCACGCTGGTGGAGCCAGCAGAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAGGA
GGAGCGGGCGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCTTGCGGGCGATGCAAGTGGCCAAGGACAGCCT
GGAGCACCTGGCCAGCAAGCTGATCCACATCACTGTGGAGGACGGCCGCTTCGCGGGAAAGGAGCTGGATCCCCA
GGCAGATAACTATGTGCCAAACCTGCTGGGCCCTCGTGGAGGAAAAGCTGCTGAAACTGCAGGCGCAGCTCCAGGG
CCACGACGTGCAGGAGATGCTGTGCCACATCGCTAACCGCGAGTTCCTCGCCAGCTTAGAGGGAAGGCTGCCCGA
ATACAACACCCGCATCGCCCTGCCCCCTTGCCACTTCCAAGGACAAGTTTTTTGACGAAGAGAGTGAGGAGGAGGA
CAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCAGAAATTAATCGAAAGTCACAAGAAGCACCGTCG
CTCTCGGAGGTCTAGACTCGTCTGACACCCACAGGCGGCCCTTCGGAGCCCCCGATCCCTCCGGGTCTAG
CGCAGGCCCCACGGGGCCCTTCAGGGGCTGAACGCGGCCCGGACCGGGAACGGAGGCGGCCAGCGCGCCCGGA
GGGGAGGAAGGGGCCGGGCCAGACGTTCCACAGTAAATCTCCCCAGCTGGGTCCGCCCCGGCCTCAGAGTTGCG
CAATAAATGTTACCGACCATG

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FIGURE 5261

GCTGCGCCGCCATTAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACCGCCCCACTCCTGCCTCTCCCAACATGGCGACCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTCTTTCTGCAGCAGGAACCGCGGCTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCGTGAAGACACAGCGCATCTCCCCGTGTAGGCTTCCTCCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCGGGGGCGTCTCCCTACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACC
TGCTTGGACGGTTCGGCCACCATCCCATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTGTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCTATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTACCCCGCAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAGCTCATTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTCTACGACCGCGTCTGGGCCGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCACCGACC
TTCCAGCACCTTCTGCCCCGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCTCGTCGCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTACCCCCGACGCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGACGCAGGCCTTCATCGATGCTGCCCAGGAGGCCCGCAACAAGTTTCGAGGAGGCCGAGC
GGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCCTCTGCCCTTCAAGC
TTGTCTCGCAGAAACCCAACTCGGGGGCTCTCCACCAGCCTTGGCACCTGGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTCAGTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCACAGAGCCCAGTCGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCTGCCCGGAGCCACCGCTGAAGCACCCACCGAAGACGACCATGACGAGCTCTAGCTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTCGGCCTGCCCCAGCAAGGGGAGGCGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCATGTTCCCTGCTTTTTTGTGTTTTTTGAGGTGGAG
TCTCACTCTTTGGCCCAGGCTGGAGTGCAGTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAA
CAATTGTCTTGTCTCAGCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTTAGTAG
AGATGGGGTTTACCATGTTGGCCTGGATGGTCTCGAACTCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTTGGATGGAGTTTAC
TCTTGTGCGGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAATAAT
AATAATAAGAGAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAAACATACCATGTCCAGCTGTCCCAGCTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCTGCAGTGCCGTCCACCCGCCCTCTGGGCTGCCTGTGGCTC
TGTTGCCCTCCTCTGTGGCGGCAGGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCCAGGCGGGGCTGGTCC
ACATTTCCAGGCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCCTGGGCCCCCACCTTGGTGACT
CGCCCCACCACCCCAAGCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCACCC

[illegible]

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FIGURE 5263

MGRRKSKRKPPPKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTPITYLSEPVDVYSDWI
DACEAANQ

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FIGURE 5264

TTTCTGCCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGT
CTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCTGAAGTGGTTCTGGAAACTTTGGTGGTGGTC
GTGGAGGTGGTTTCGGTGGGAATGACAACCTTCGGTCGTGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGAG
GTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCATGGCGGTGGAGGCCAATACTTTGCAAACCACGAAACCAAGTGGCTATGG
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGITTCGTGTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTTT
TTTT

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FIGURE 5265

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVITYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRSGGKKRGFAF
VTFDDHDSVDKTVIQKYHTVNGHNCEVRKALSKQEMASASSSQGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSHGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPR
NQVAMAVPAAAVAMAVAEDFN

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FIGURE 5266

CTCTTTCCCTTCAGTGTGCCACTGAAGATCCTGGTGTGCCATGGGCCGCCGCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGCATTTTGGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTCTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCC GAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAA
TTCTACTT